

02

Protobiblio

PORTFOLIO

14

104-500 Émilien-Marcoux St. , Blainville, Qc, J7C 0B5

PORTFOLIO

20

Machins for discord

PORTFOLIO

24

Average Tower

PORTFOLIO

44

Institutionalized Ruins

PORTFOLIO

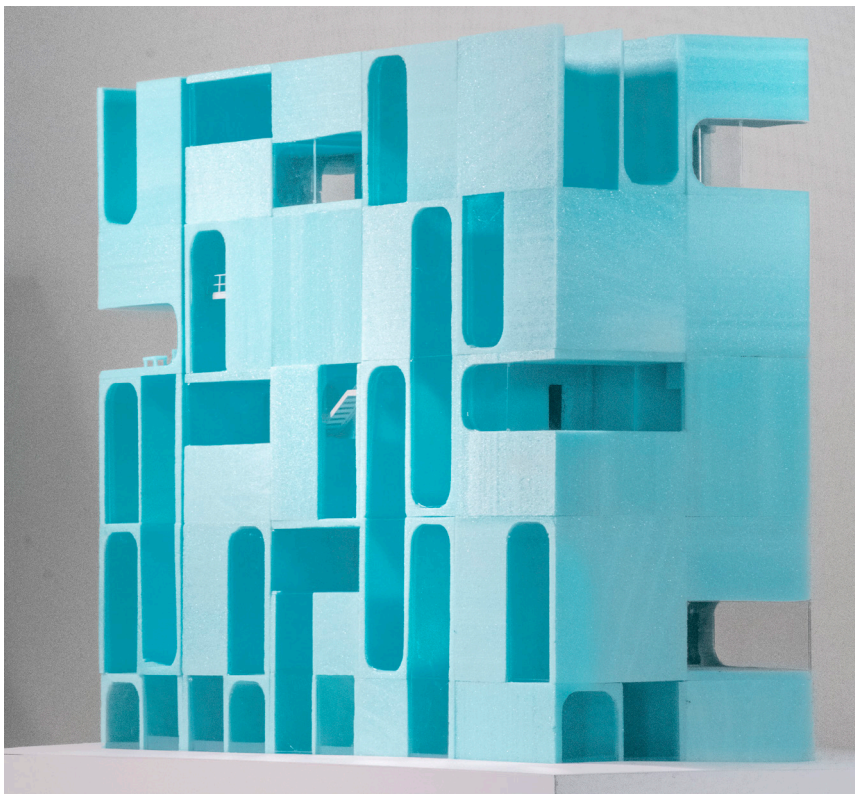
54

Scripted Generic

PORTFOLIO

74

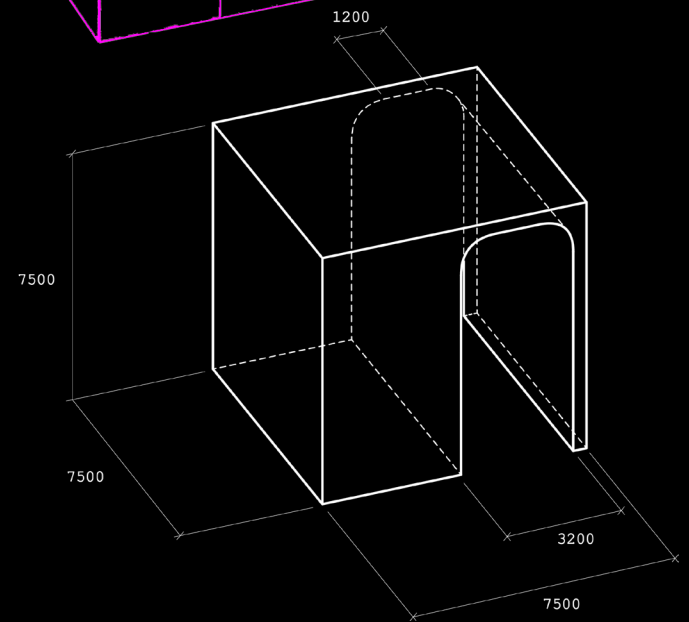
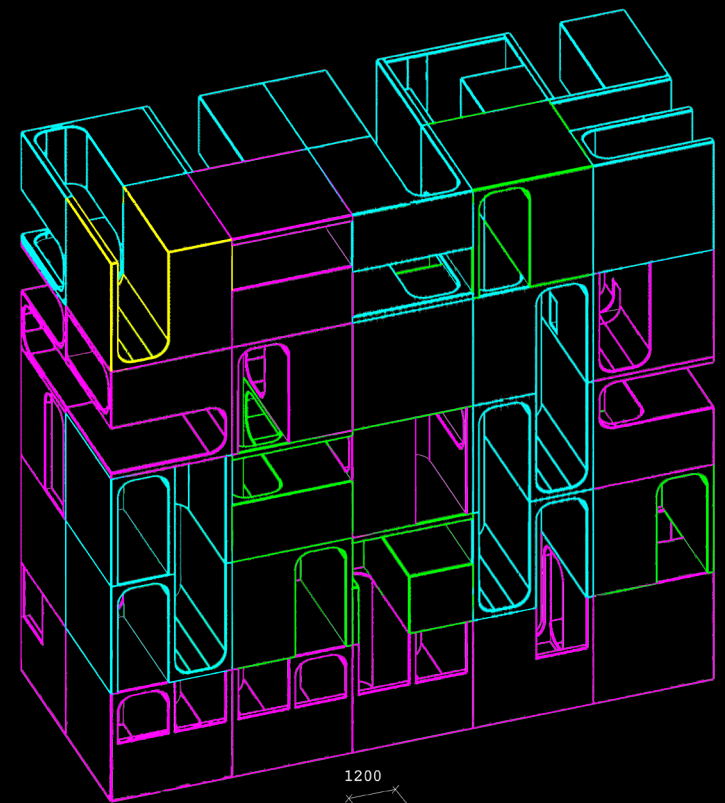
Professional Work



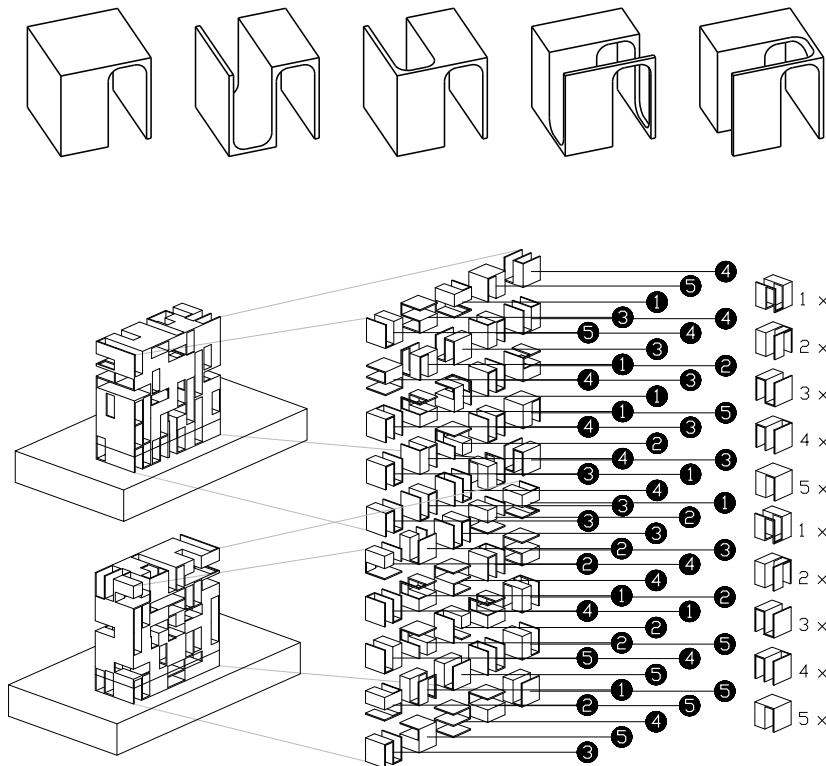
Protobiblio

Archives Library
Team mate / Rémy Fortin
Studio Instructor / Eric Bungee
Winter 2017 / 3 weeks

The Studio sought to confront two seemingly opposite qualities in architecture, density and light. The typology of the library then becomes relevant insofar as it pays particular attention to radiation, both for the conservation of the works and to provide adequately illuminated places for reading or working on a screen. The project is an arrangement of 50 cubic modules of 5 different types. Each type results from subtractions of the same arciform module in different directions. The modules are distributed in a 2x5x5 matrix, then rotated in different directions. These combinations of modules and orientations are evaluated according to an evolutionist logic (Grasshopper + Galapagos) in order to obtain the greatest diversity of luminous situations. The spaces resulting from this arrangement are connected by bridges, stairs and generic balconies.

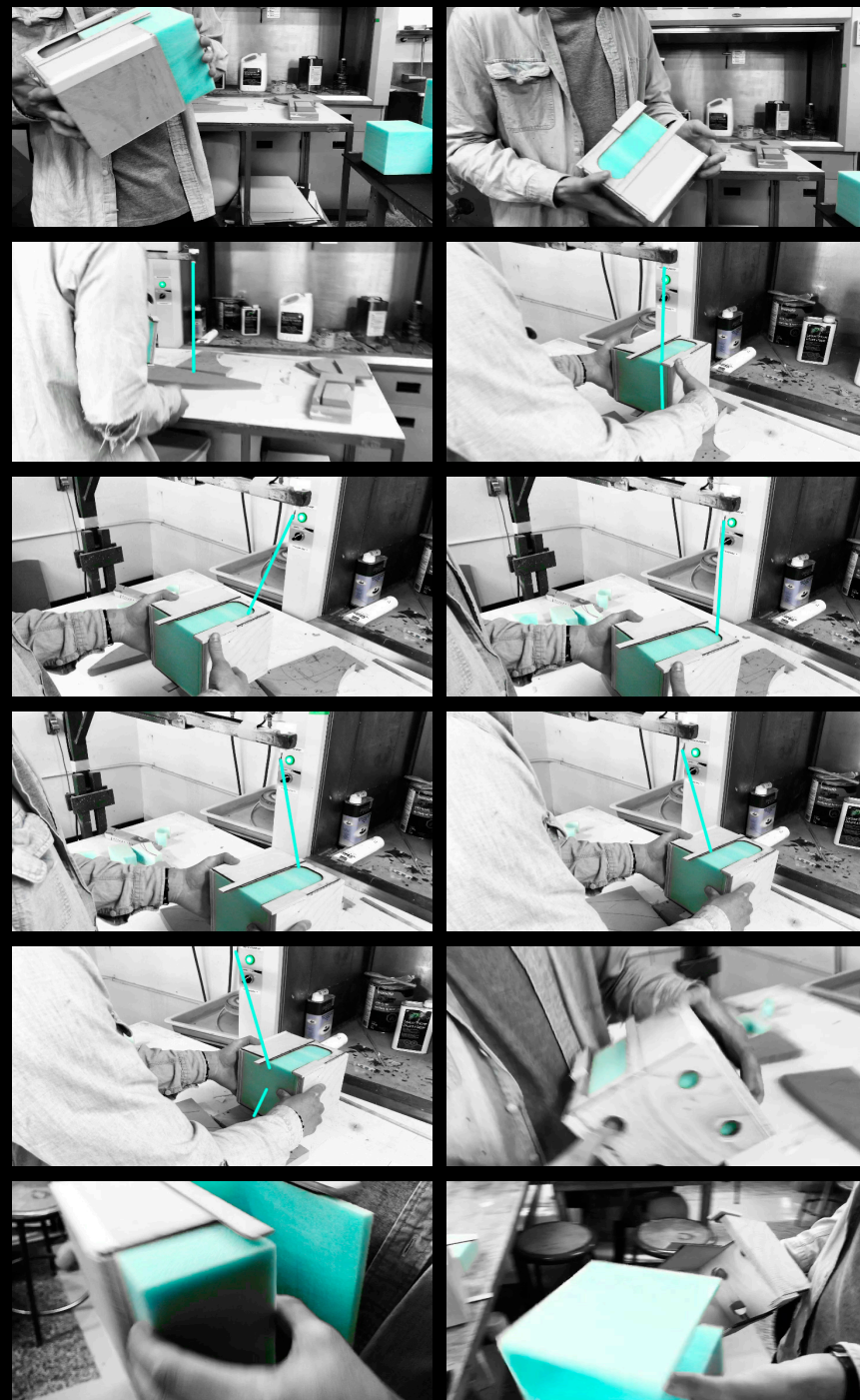


Resulting volume for multiple lighting level + basic module

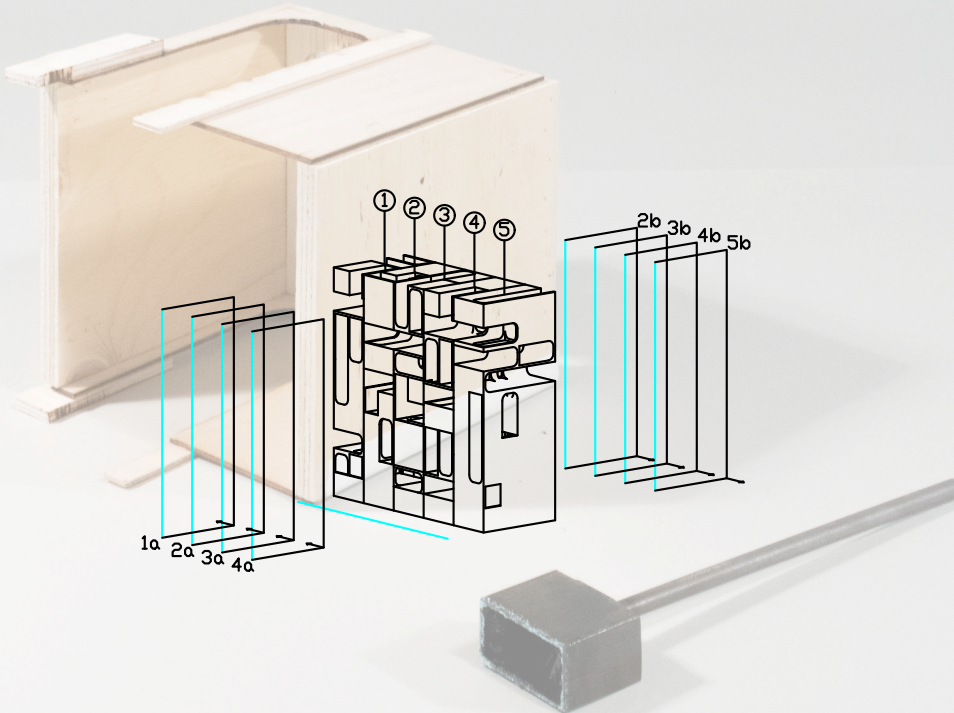
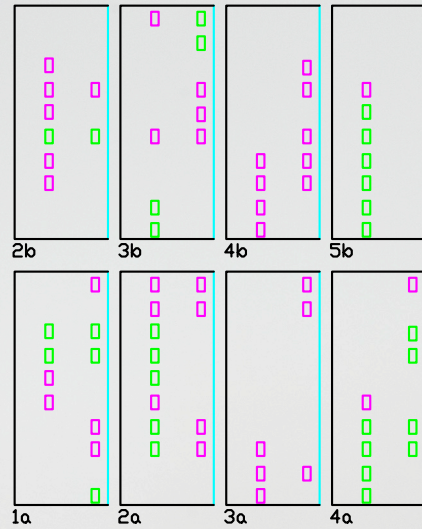


The physical model intervenes in the design process not only as a means of representation, but as a means of analysis and understanding of a complex form. The field of fixed spatial conditions generated, after being mapped, can be exploited to serve the program. Reading, work and meeting rooms are fragmented through the “voids” left by the modules and the “full” are used for filing rooms and technical spaces. 3 vertical axes, determined by a favorable alignment of modules, allow the positioning of an elevator and a stairwell that cross the project without hindering the shape. A labyrinthine system of punctual connections allows for micro circulation through the project. The limit between the inside and outside is defined by the position of the glazing, sometimes moved back to free terraces and balconies. The result is the proposal of a library as a place of adventure and possibilities, containing a variety of appropriable spaces, offering multiple lighting atmospheres.

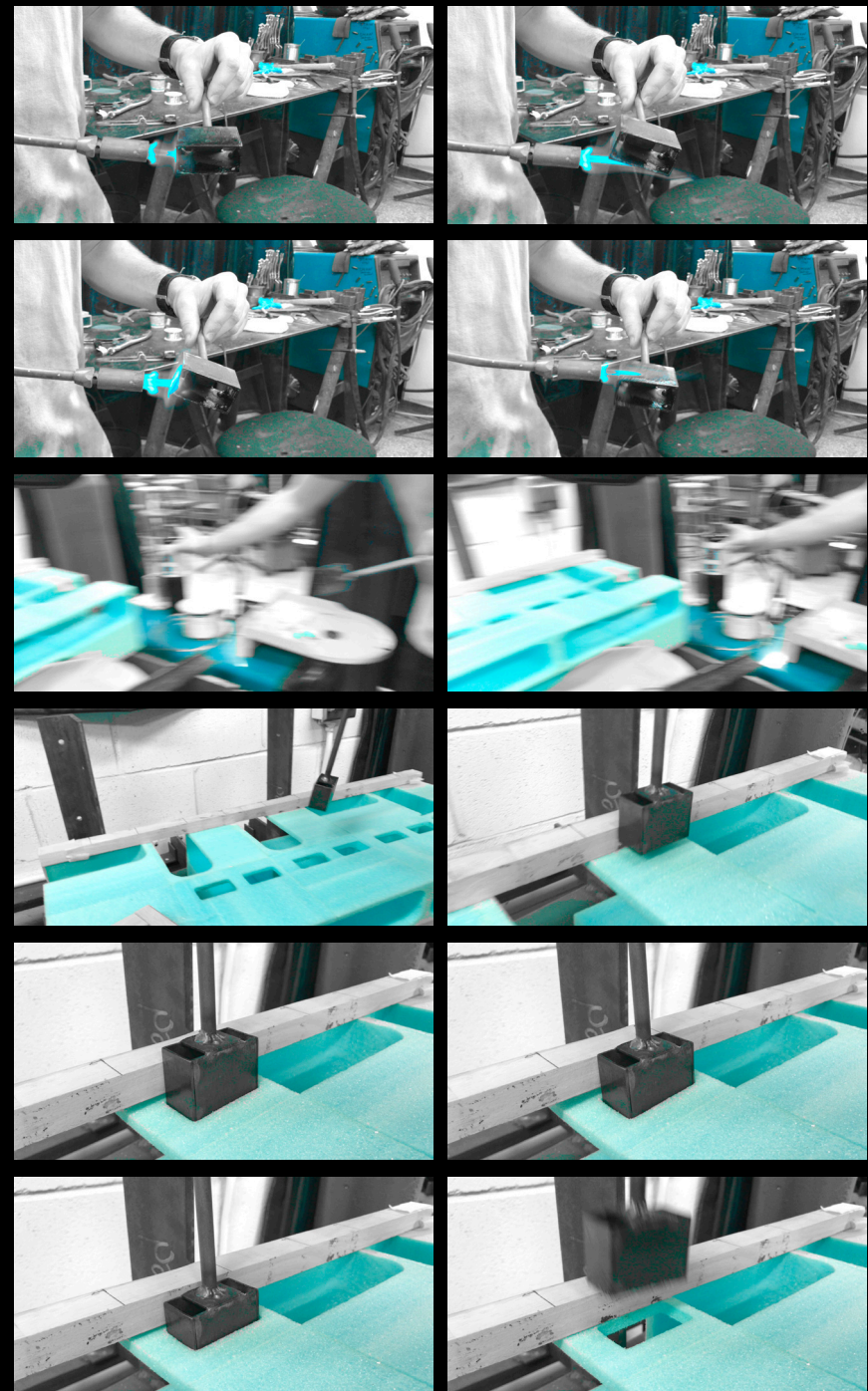
The 5 modules + Form deconstruction



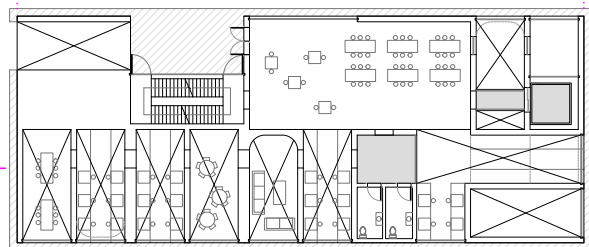
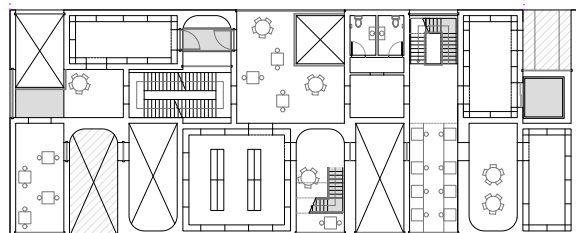
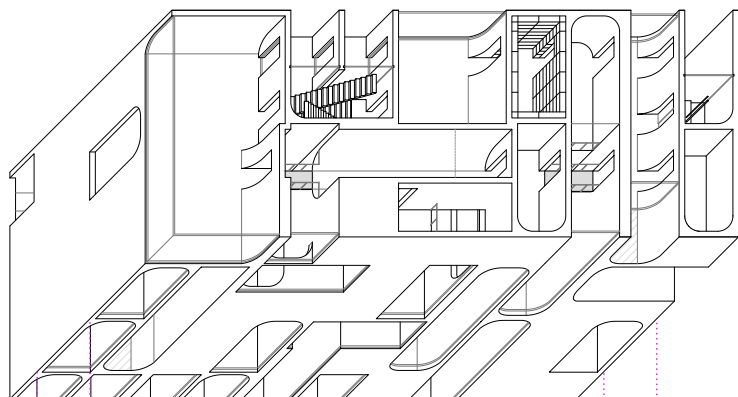
Subtraction of the arciform module with guide and heated wire



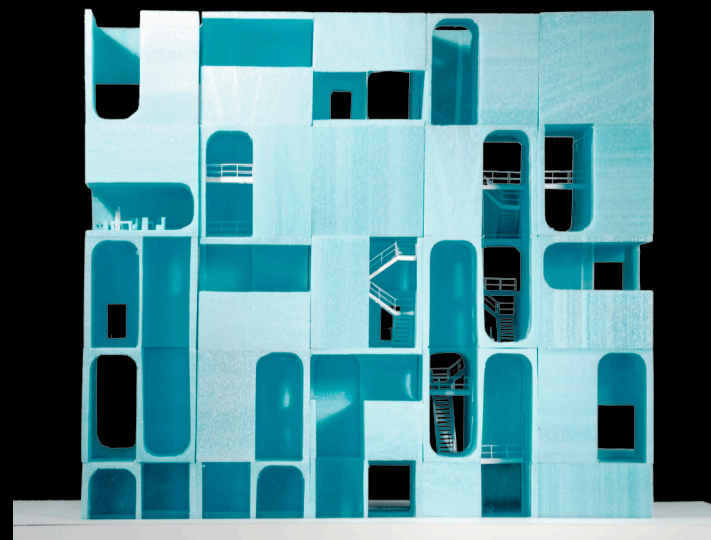
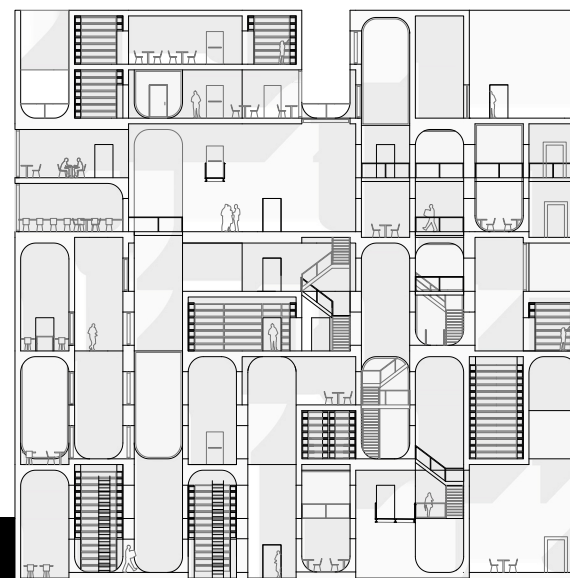
Section for interior connections positioning



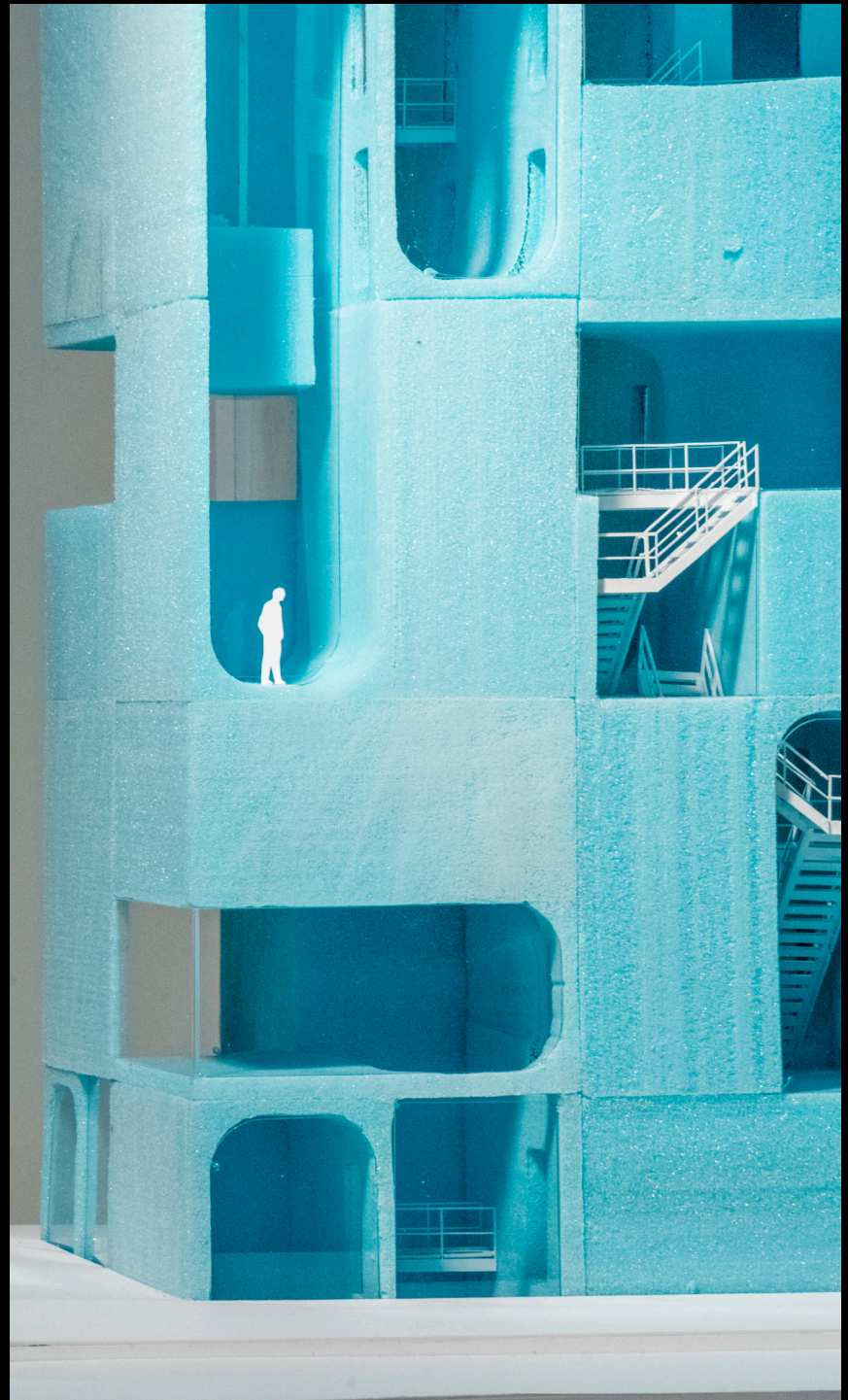
Cutting holes with punch and torch

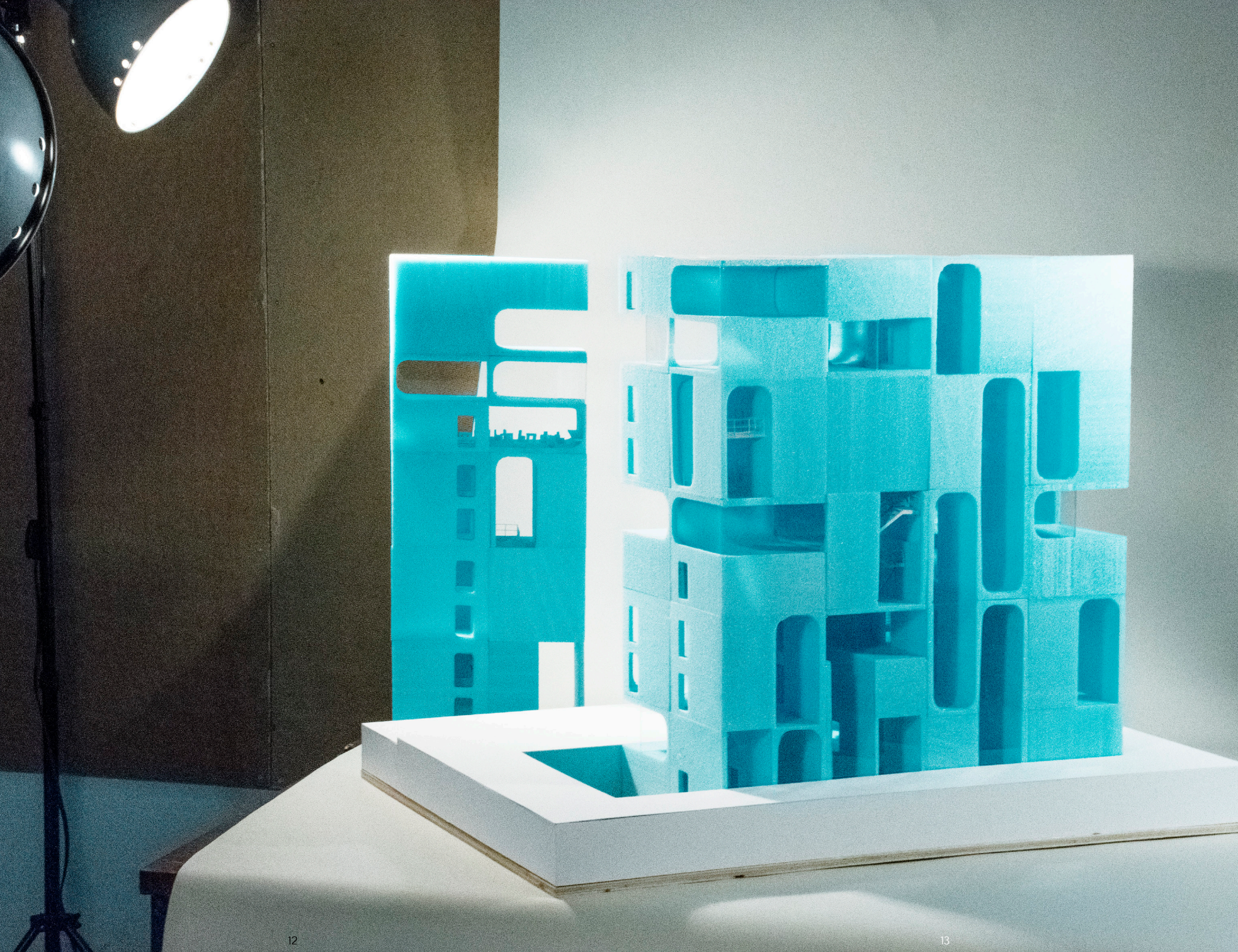


L5 + L3 + L1 [1:500]



Section + Elevation [1:500]



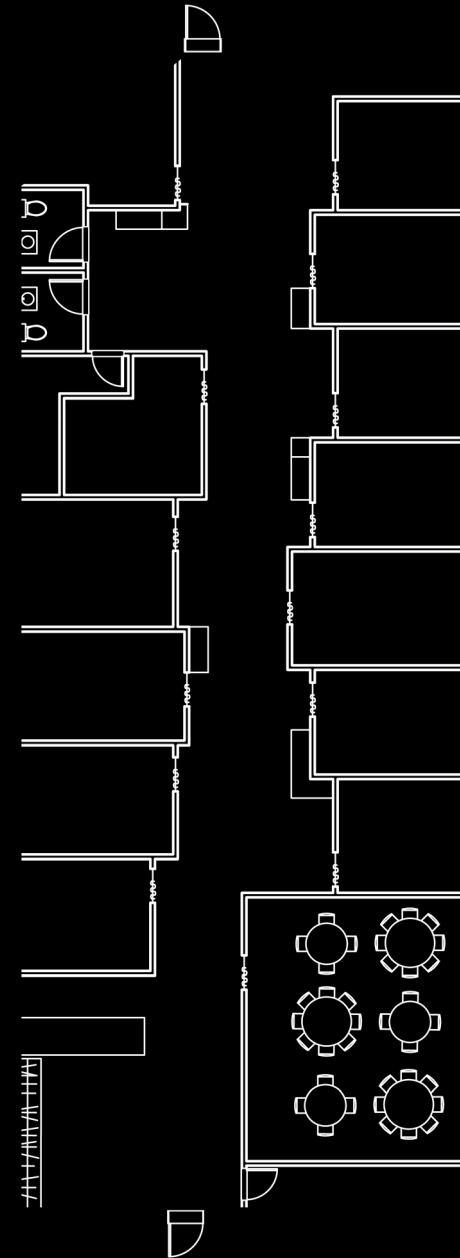




104-500 Émilien-Marcoux St., Blainville, Qc, J7C 0B5

Installation/Entertainment
Summer 2015 / 10 weeks

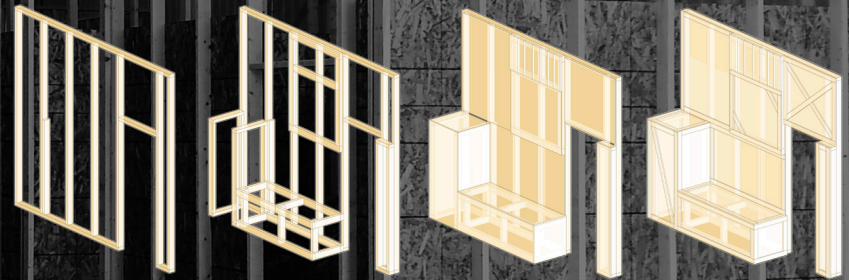
With a 4500-square-foot warehouse, how do you think of internal divisions to create an atmosphere conducive to the immersion of participants in the context of skill tests? The idea is to take advantage of the raw and industrial character of the warehouse by hiding a succession of 12 pieces through walls having the appearance of boxes stacked on top of each other. The “boxes walls” can turn into benches, doors and counters. The rooms have no ceiling in order to benefit from natural and artificial light, heating and ventilation.



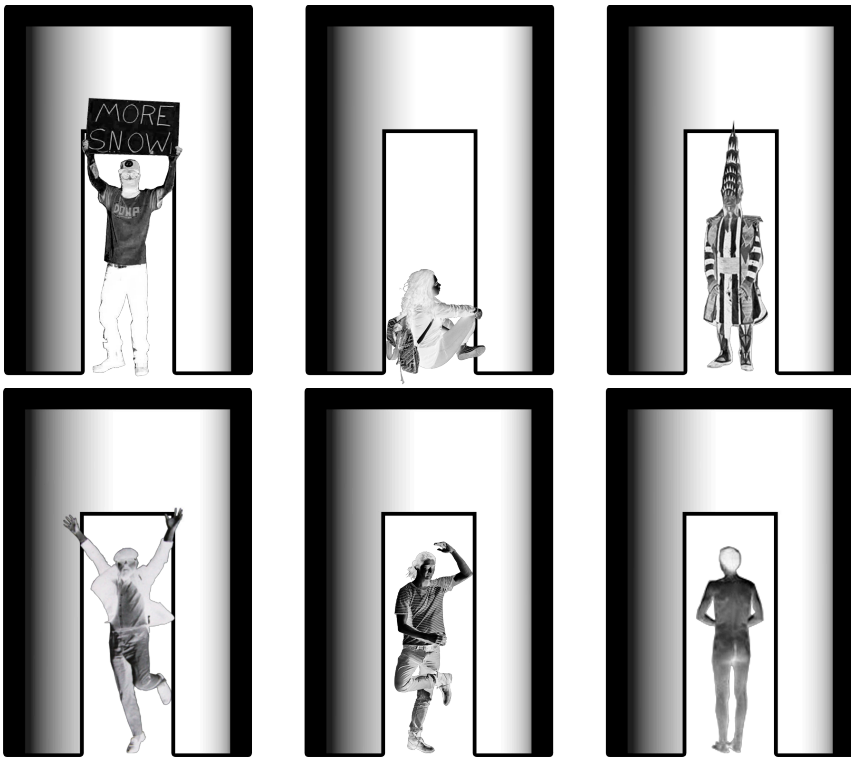
Interior Layout [1:200]



SPF 2 X 4 X 8	170
SPF 2 X 4 X 10	210
SPF 2 X 4 X 12	150
SPF 1 X 3 X 8	1000
SPF 1 X 4 X 8	20
OSB 7/16 X 4 X 8	150
PLY 1/8 X 3 1/2 X 3 1/2	450
BARN WOOD	50
NAILS 3 1/4" 34°	9000
STAPLES 2" CA18	20 000



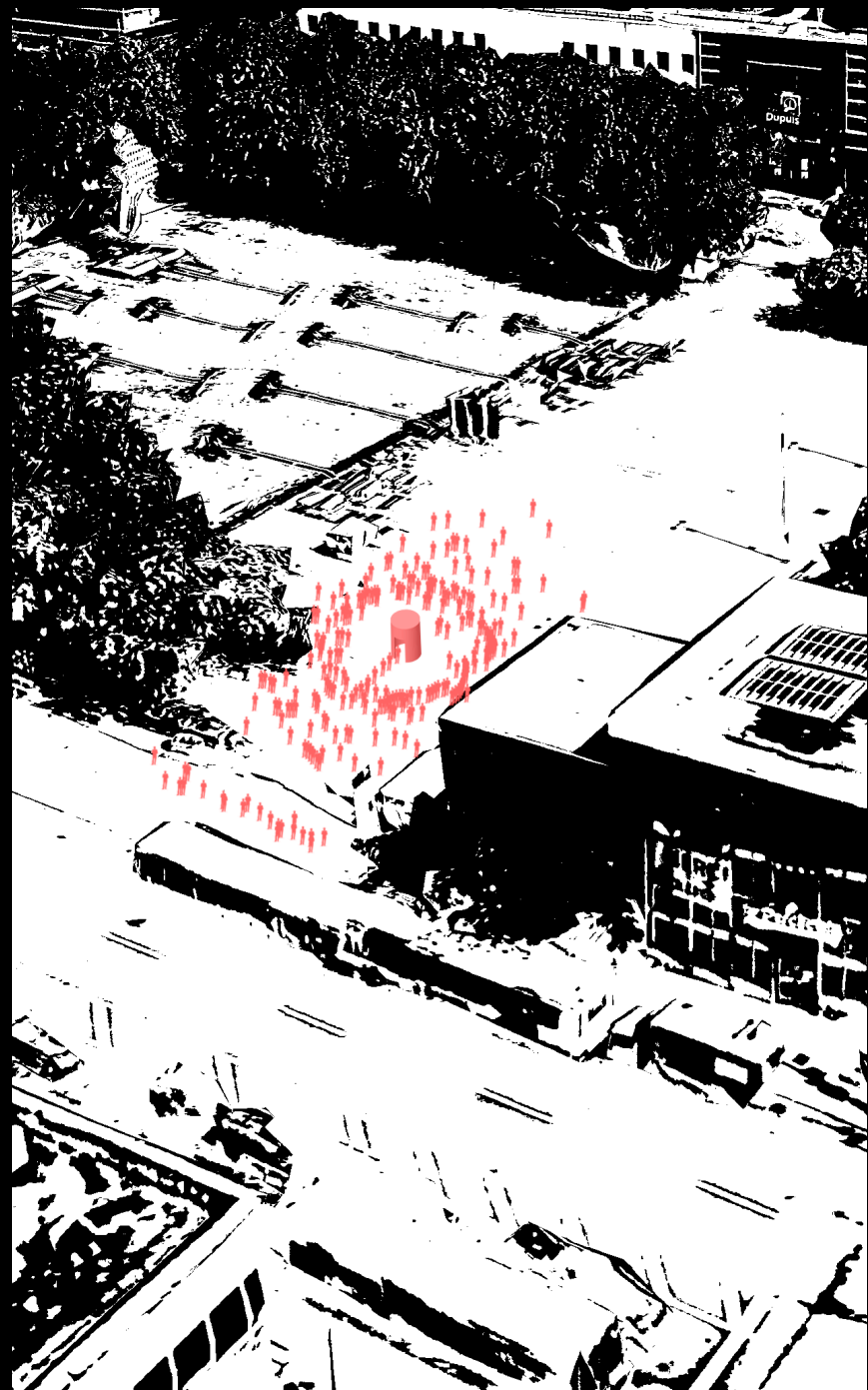




Machines for Discord

Team mate / Nicolas Abou-Kasm
CCA Interuniversity Charrette
Fall 2017

Physical space is a field already won by the authorities. Satellite imagery allows companies like Google to represent this physical space in an objective, anonymous 3D virtual space. This proposal then explores the complementarity of a physical and virtual occupation of space by adding 3D representation of physical individuals to a given virtual place. This hyperrealistic representation would be generated by a public 3D scanner. This physical machine, serving as intermediary between the real and the virtual, generates in itself the debate by generating an interruption in the urban fabric. The virtual occupation is cumulative and monitored on the machine, which allows to dislocate the action also in time. Virtual occupation is ephemeral: the 3D scan remains in place for a limited time; This ephemerality ensures the eventual return of individuals to physical exchanges, scanners.



Informal gathering around a human scanner at Berri station



The use of the machine allows the body to be considered as a tool of revolt, conveyed through its movements and its positioning in the virtual space. The anarchic potential of the virtual world gives people the opportunity to take possession and invade physically inaccessible places. Some movements could seize infrastructure symbolically such as institutions, highways, airports and other figures of power.



YUL International airport/ Bordeaux prison / Turcot Interchange

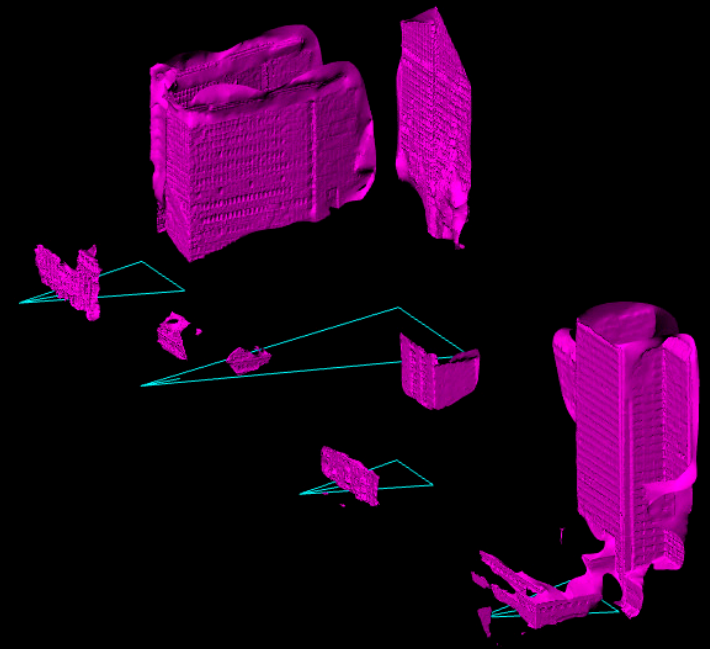
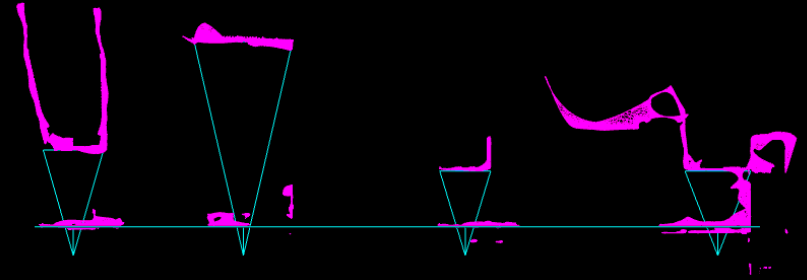


Average Tower

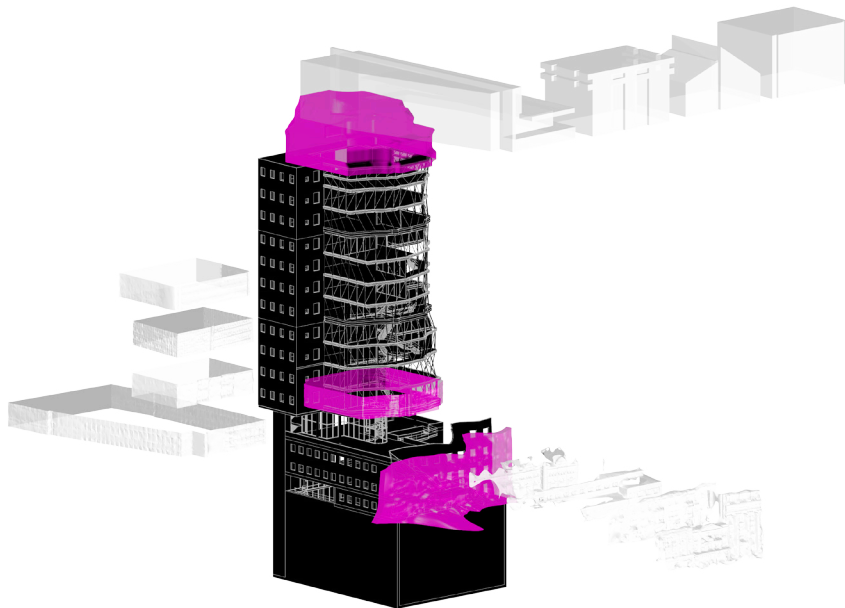
High School
Team mate / Rémy Fortin
Mackay St. , Montréal, QC
Studio Instructor / Tom Balaban
Fall 2016 / 14 weeks

This project is based on a perspectival phenomenon resulting from its urban context in downtown Montreal. The superimposition of a tower in the background and a lower building in the foreground produces an exquisite corpse recalling the composition of a typical tower and its basilaire. The appearance of this moment highlights an issue inherent to the typology studied, namely to develop the relationship with the street of a building unfolding vertically.

The basilaire belongs to the street, the tower to the block, the crowning to the urban landscape. The method for generating the average must therefore be adapted to better prove its relevance as an urban integration tool. The geometry of the basilaire is obtained by projecting a grid of points (XYZ) on each of the scanned surfaces and averaging their position in Z. The surface of the body of the tower is obtained by recomposing a surface on 3 sides from partial scans. The average is determined from vectors projected on this surface from a centroid. The crowning, impossible to scan from the street, is 3D modeled from scratch. Its average is also vectorial and from a centroid.



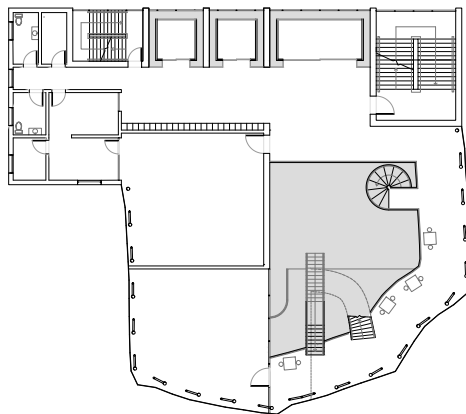
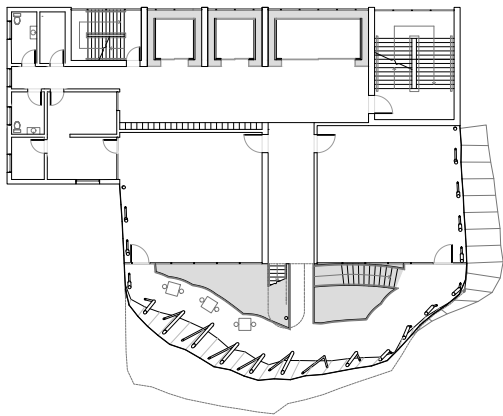
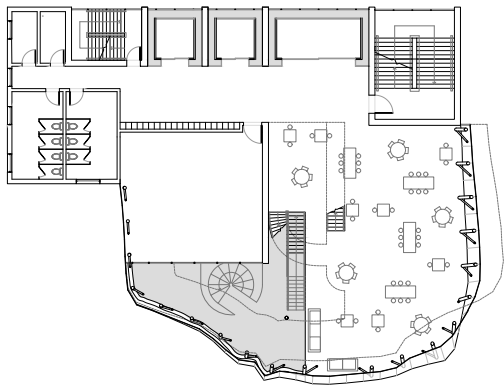




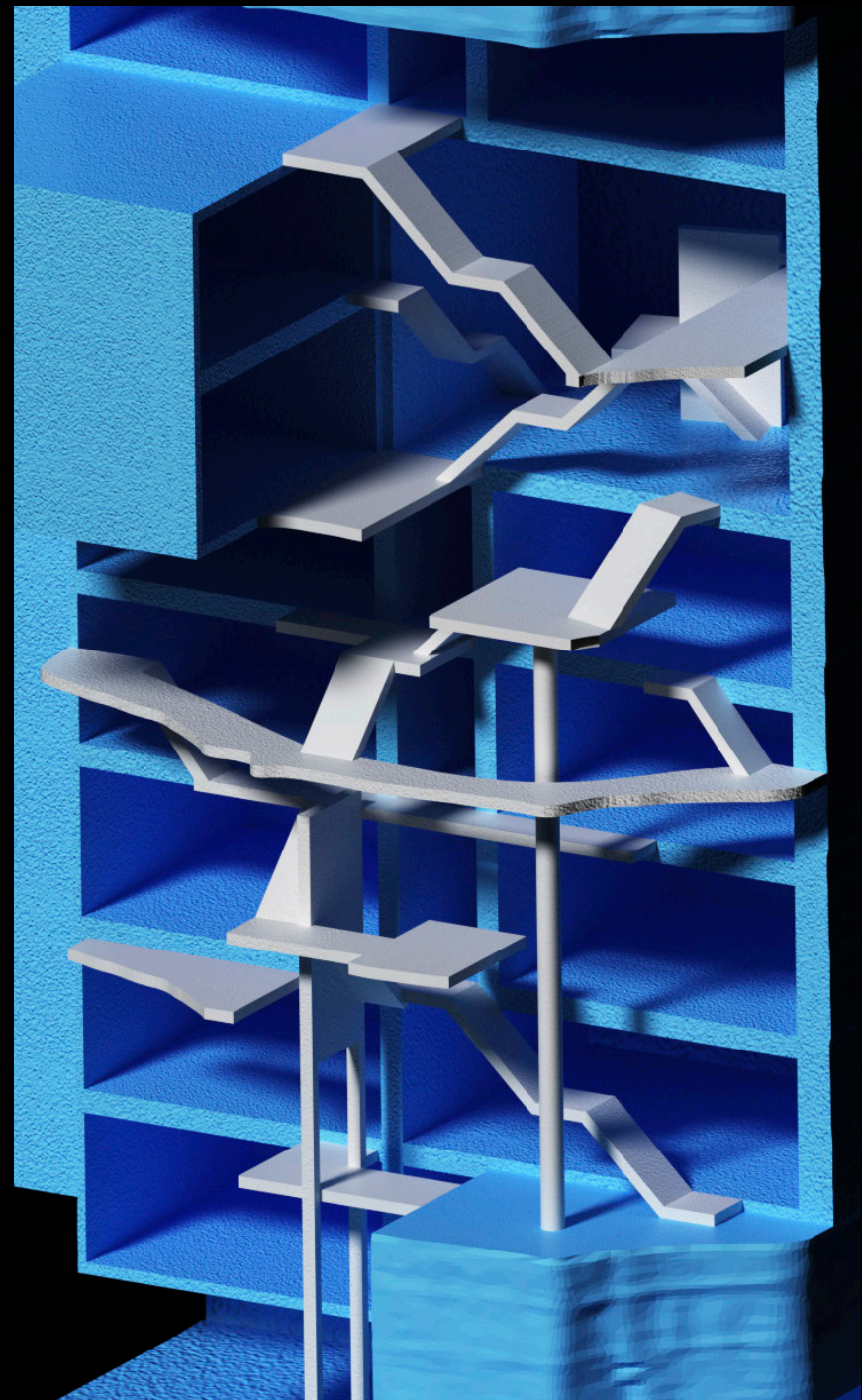
Average entries form and combination



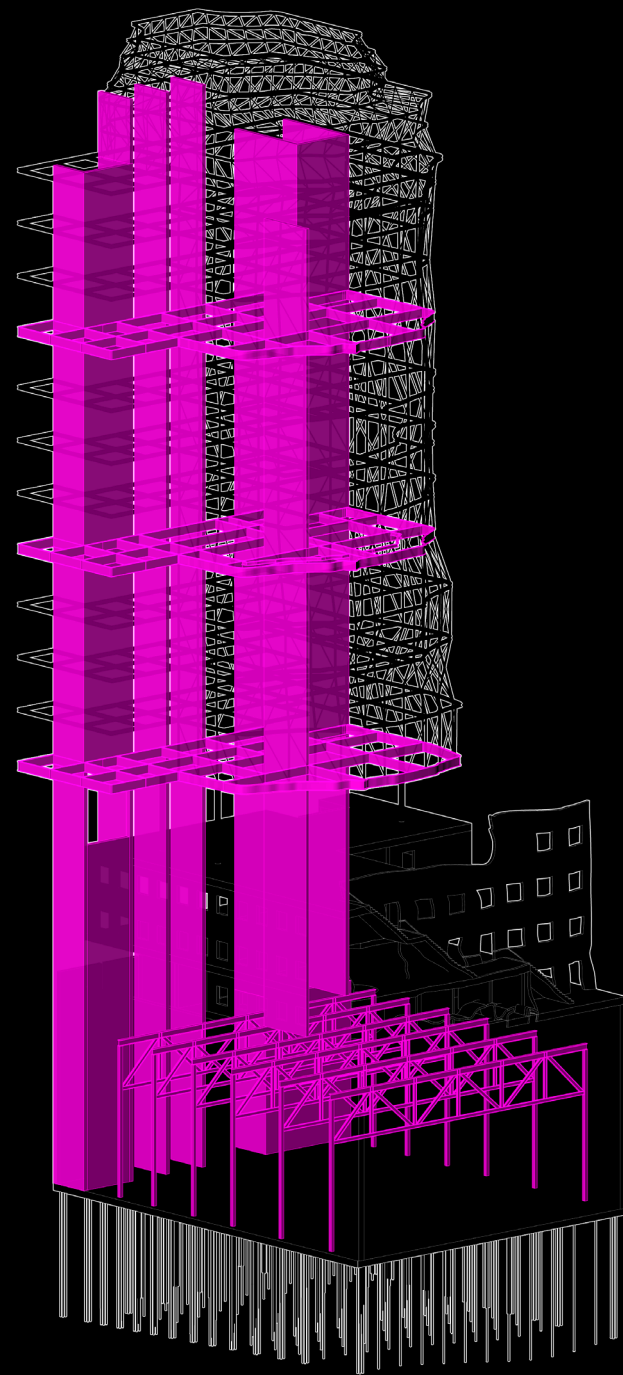
Mega Section [1:600]



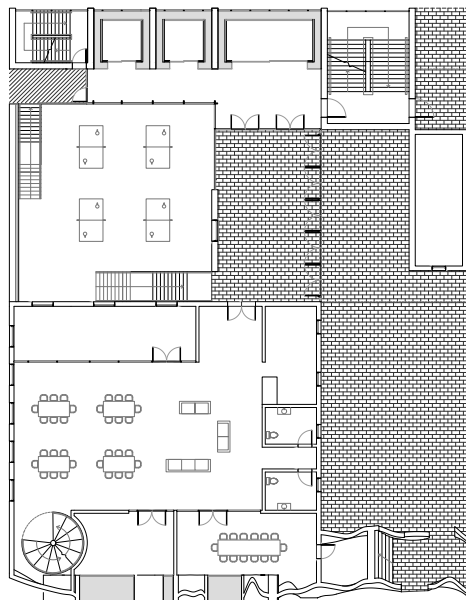
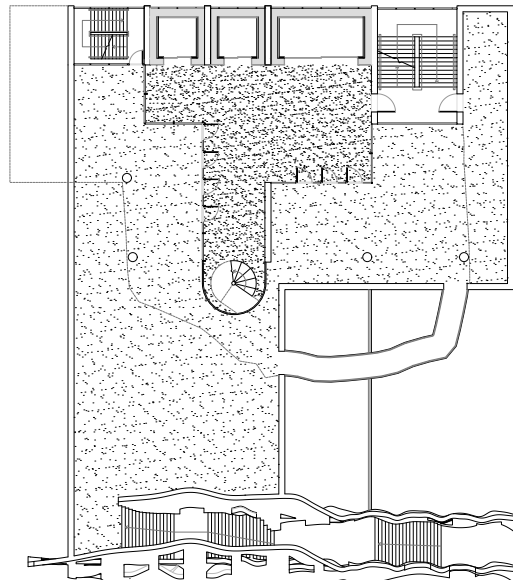
L4 + L8 + L10 [1:500]



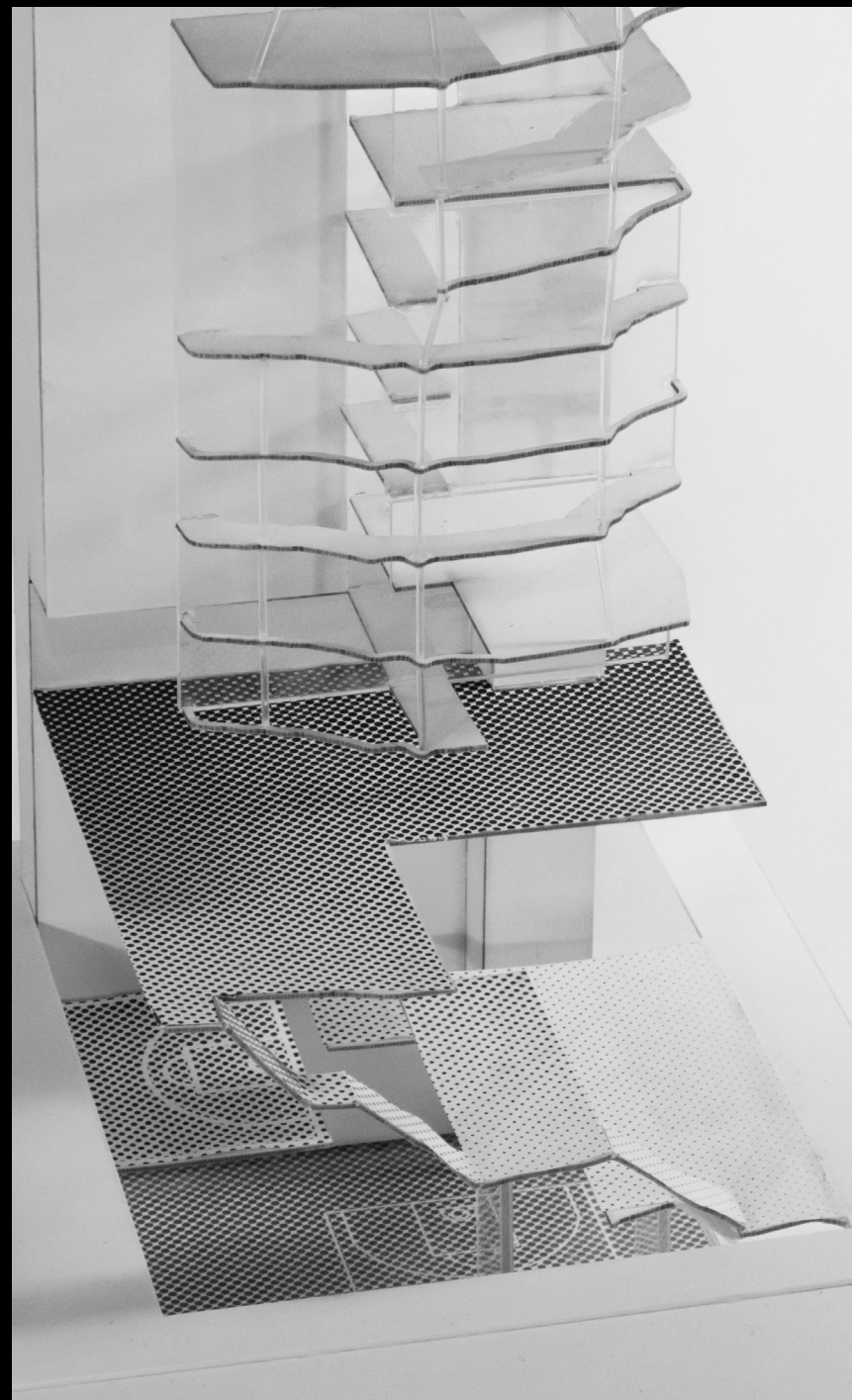
Digital model of tower circulations



Structural Diagram

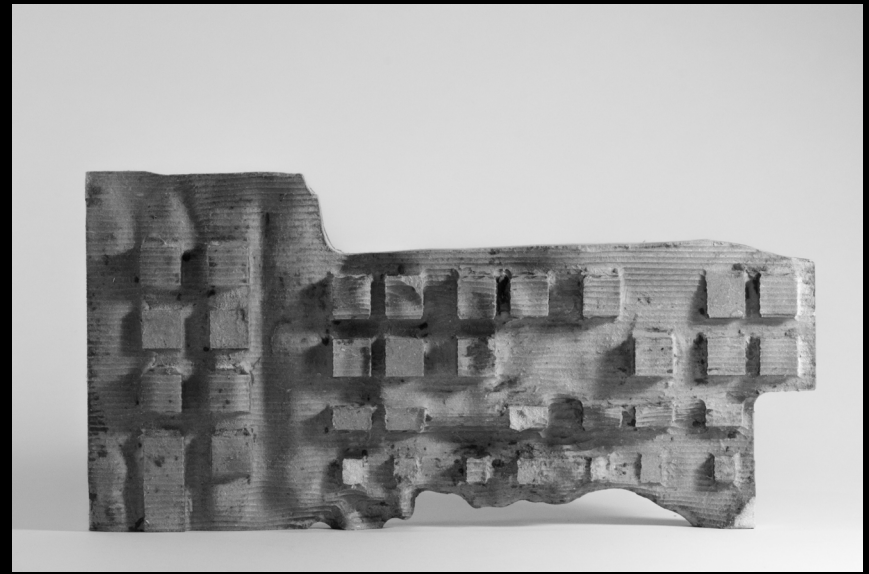


L1 + L3 [1:500]

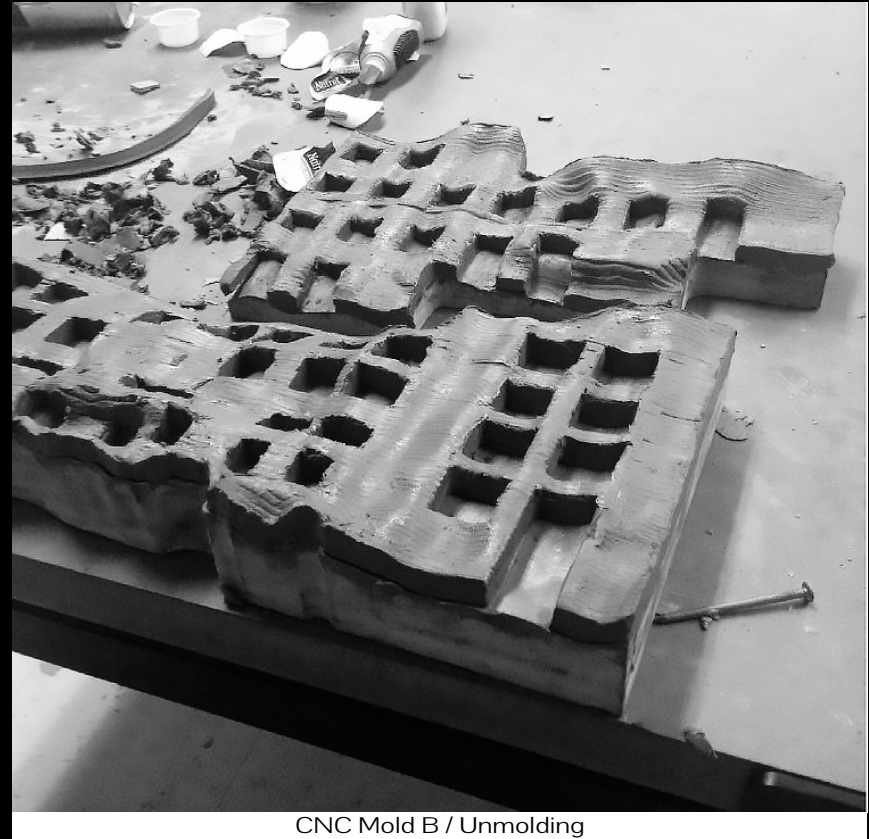


Progression public/private

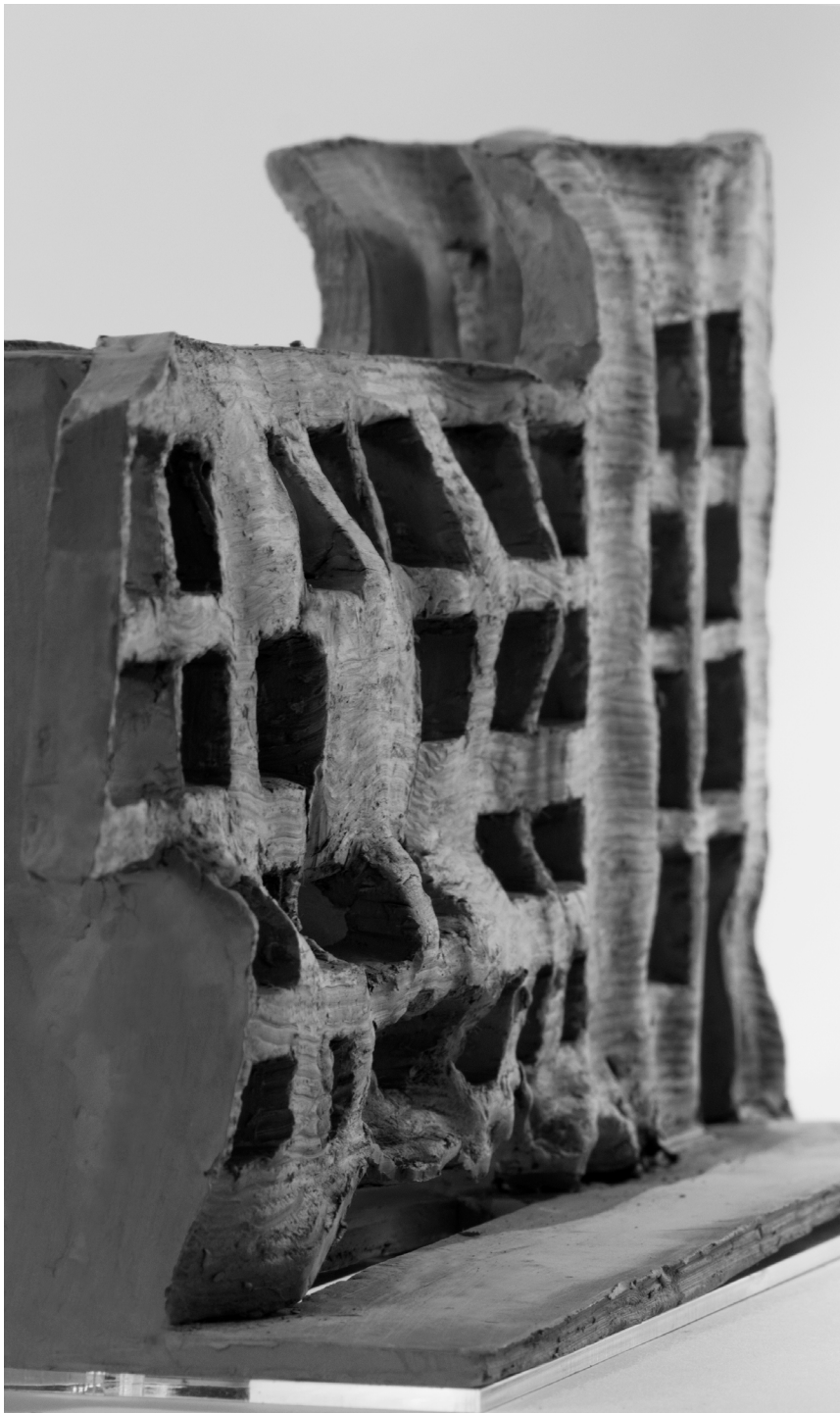




CNC MOLD A / Clay Compression



CNC Mold B / Unmolding



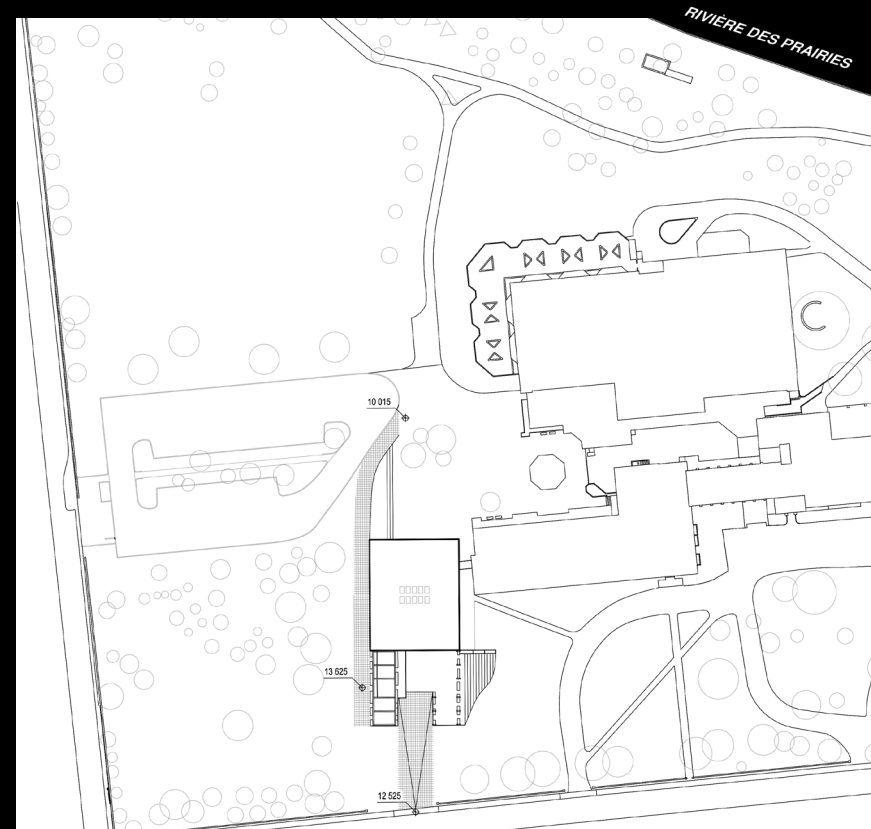
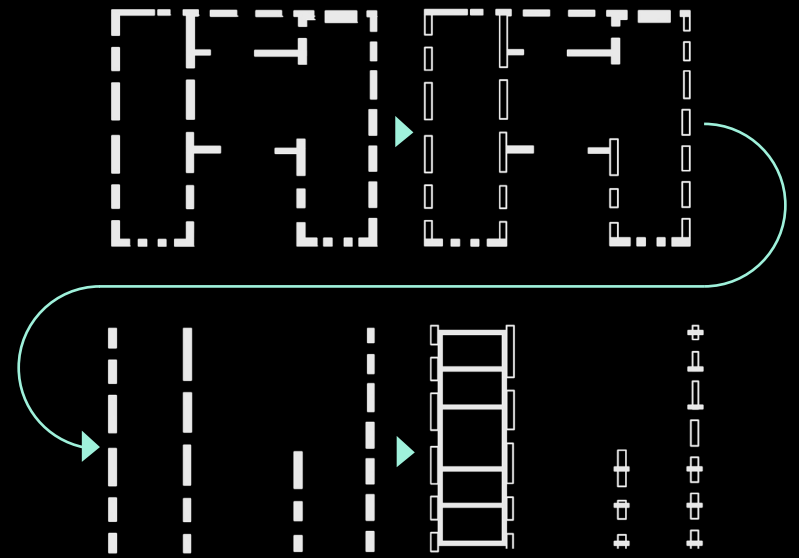




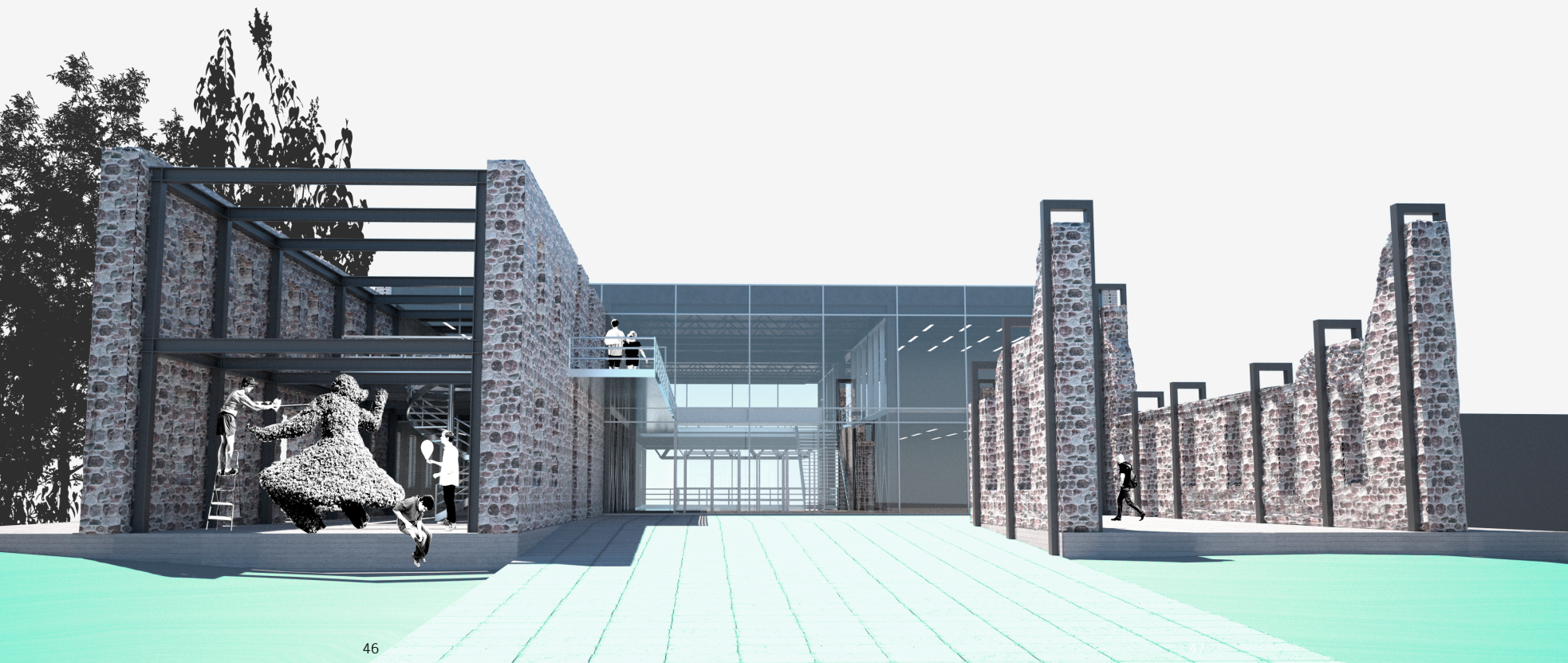
Institutionalized Ruin

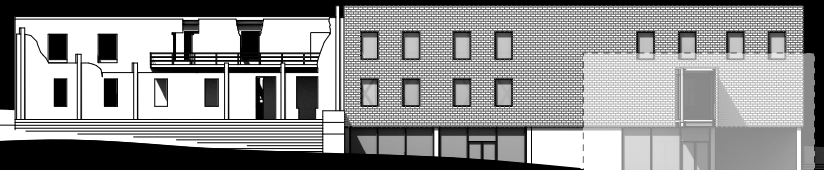
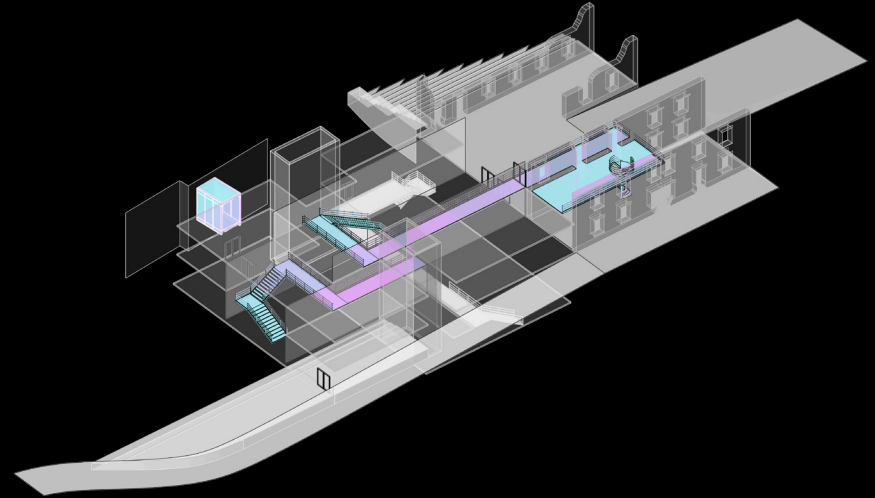
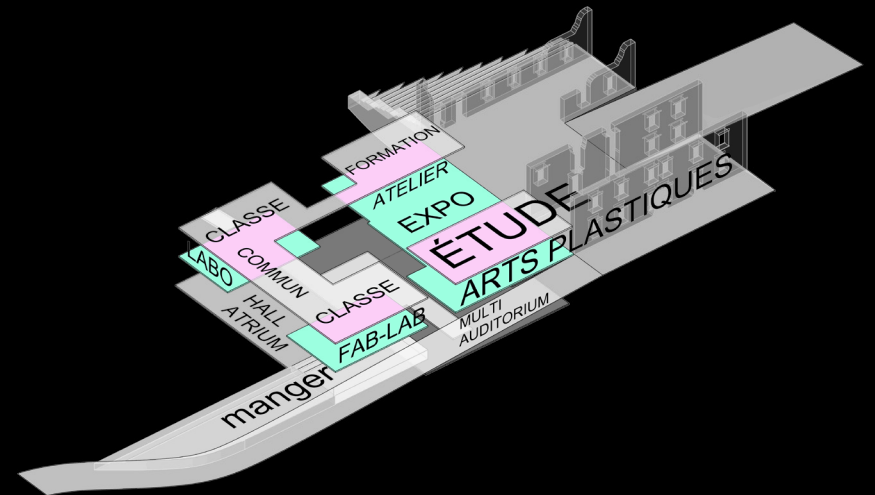
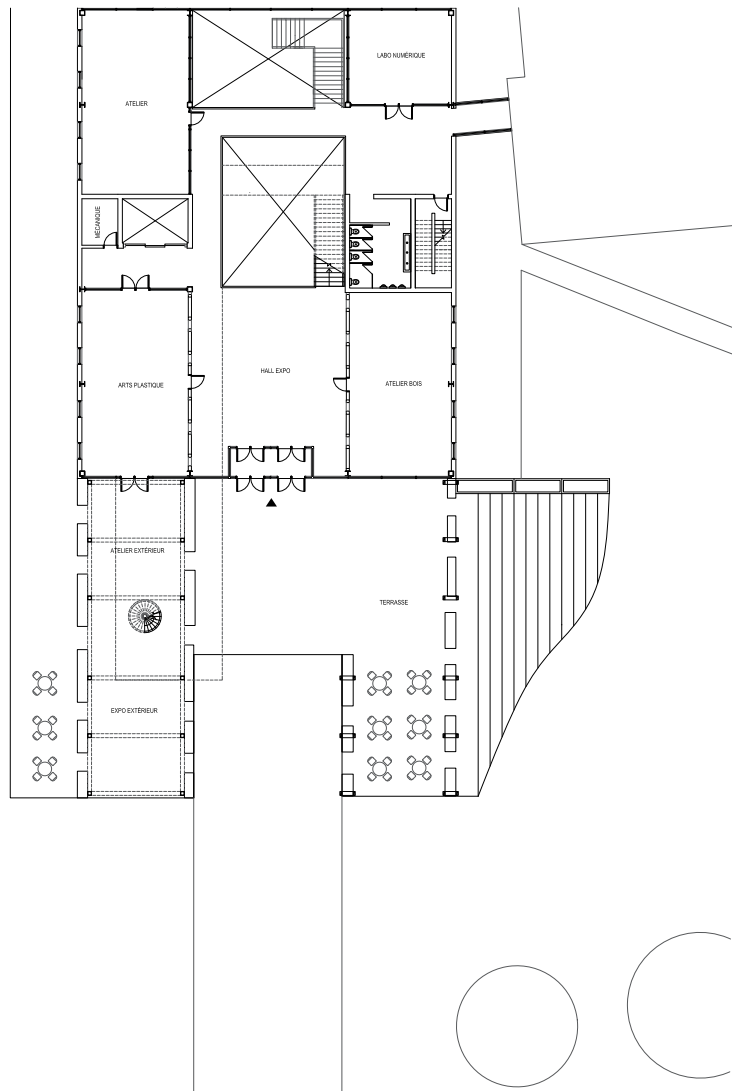
High school (pavilion)
E Gouin Boul., Montréal, QC
Studio Instructor / Geneviève Marsan
Fall 2017 / 14 weeks

The existing ruin in the context of the study is a provocative object by its monumental deterioration facing the boulevard. This is the main communication platform between the institution and the neighborhood. The presence of a wall at the perimeter of the site slows the exchanges between the two parties, the ruin that emerges is all the more spotted. How can the architectural intervention use this context and thus promote a porosity between the extension of the school and the public? This proposal explores an alteration of the ruin as a conservation strategy. The removal of the parallel walls at Gouin Boulevard allows appropriation of the now cleared place and generates a connection to the street. The positioning of the building behind the vanishing walls then allows to frame the internal activity of the pavilion. Ultimately, the preservation of the ruin as a ruin informs the proposed program for the center of culture and arts that revolves around spaces dedicated to manual learning, which are central and connecting with it, visually and physically.



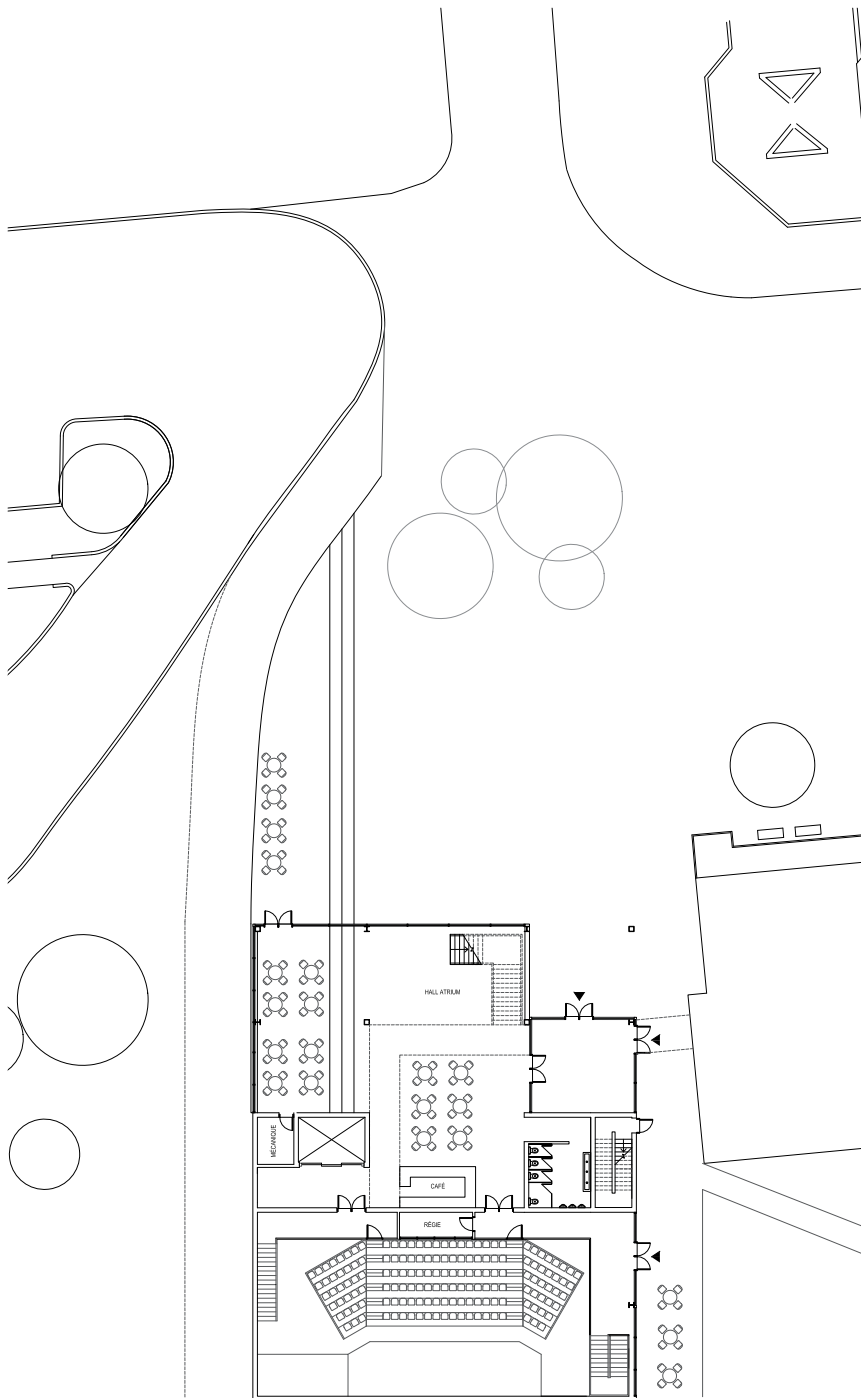
Ruin modification / General Plan [1:2000]



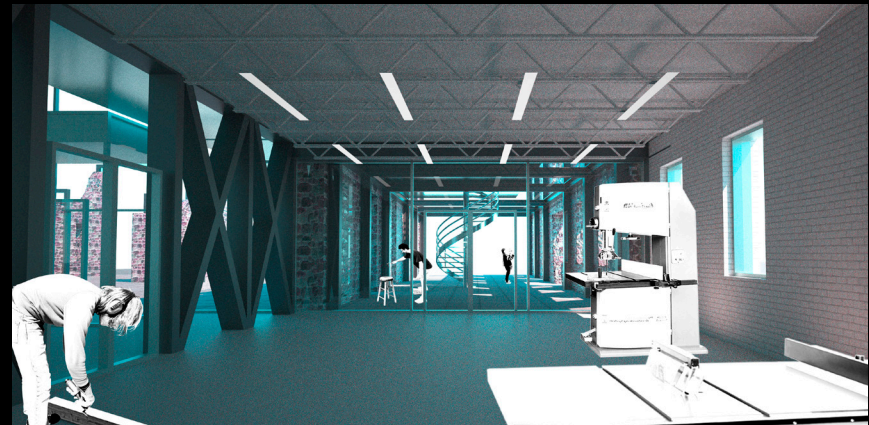
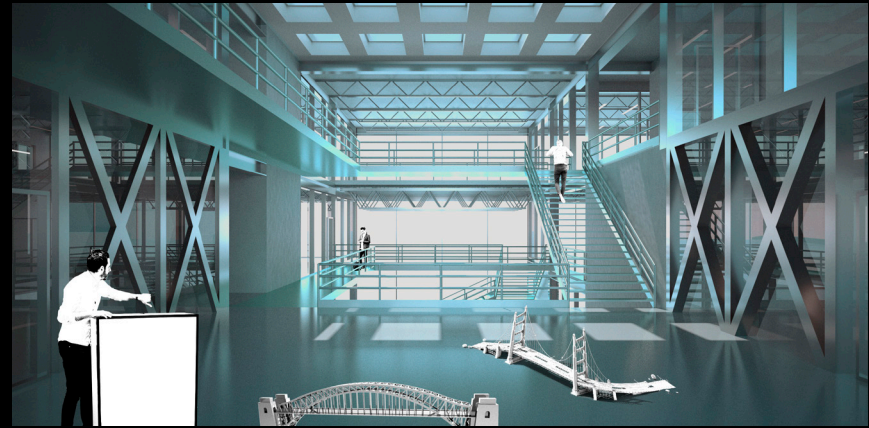
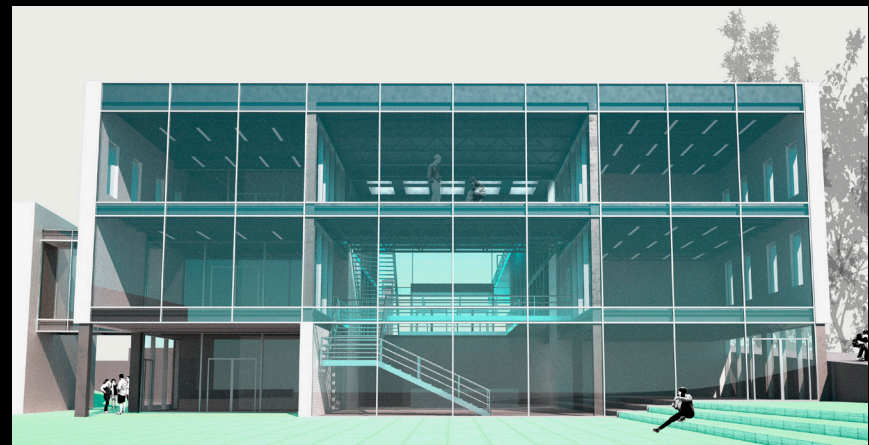


L1 + Section [1:500]

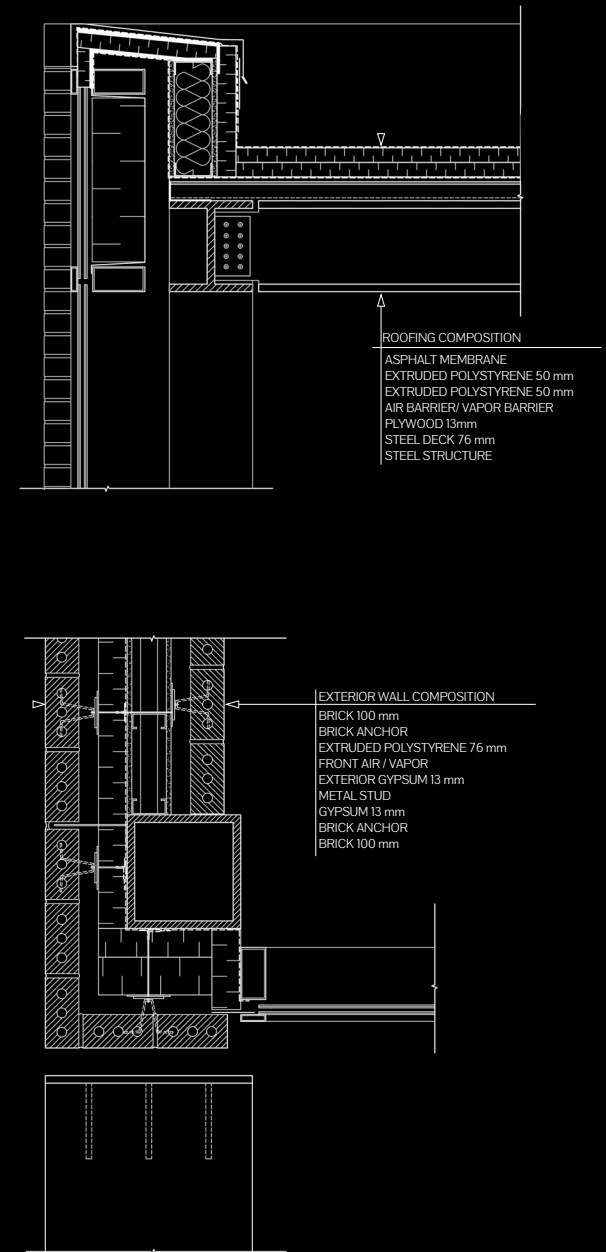
Program + Circulation / East Elevation [1:500]

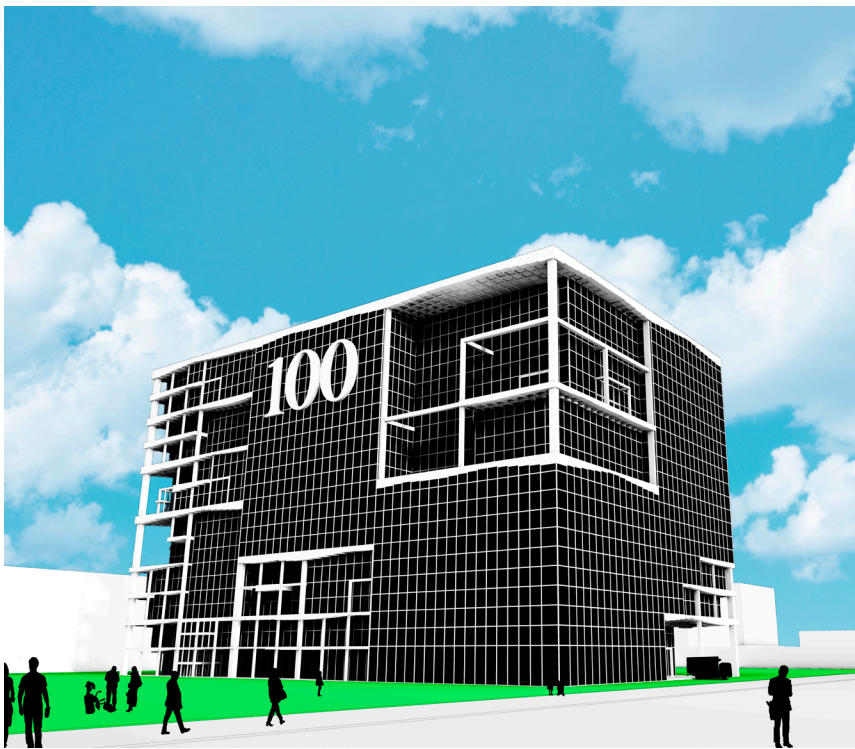


LO [1:500]



North Facade / Atrium / Fablab





Scripted Generic

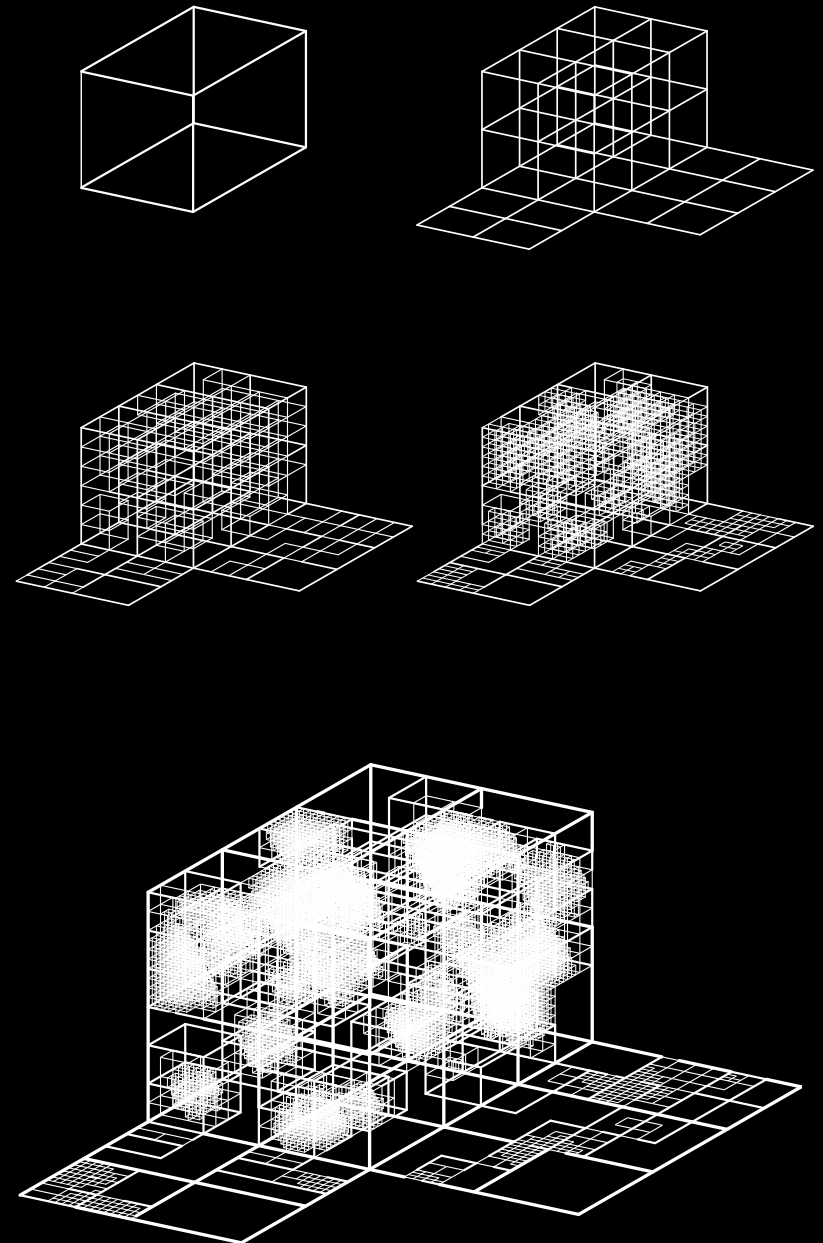
Mixed very specific uses

De Iouvain O. St., Montréal, QC

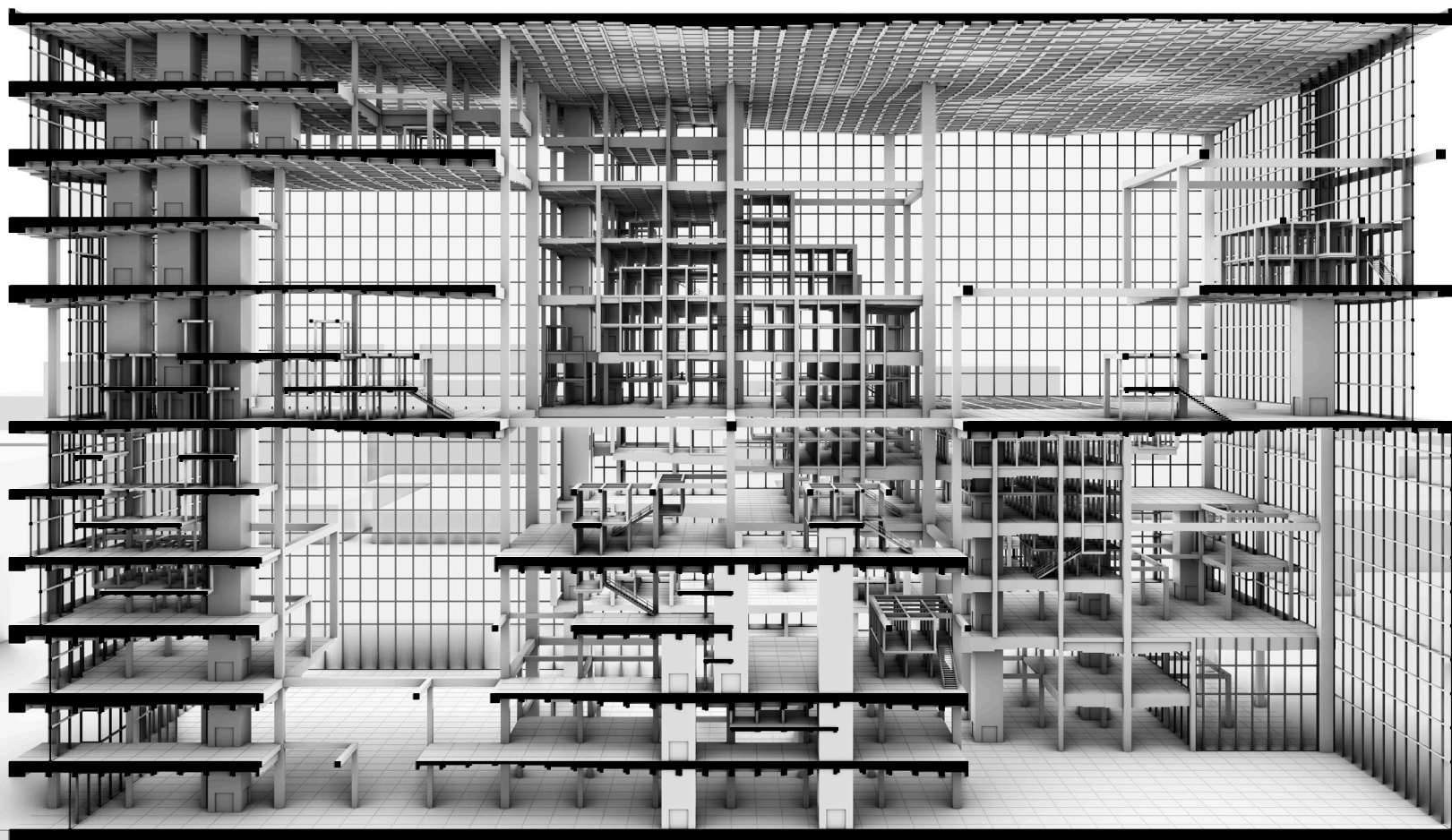
Studio Instructor / Alessandra Ponte, Fabrizio Gallanti, Son Nguyen

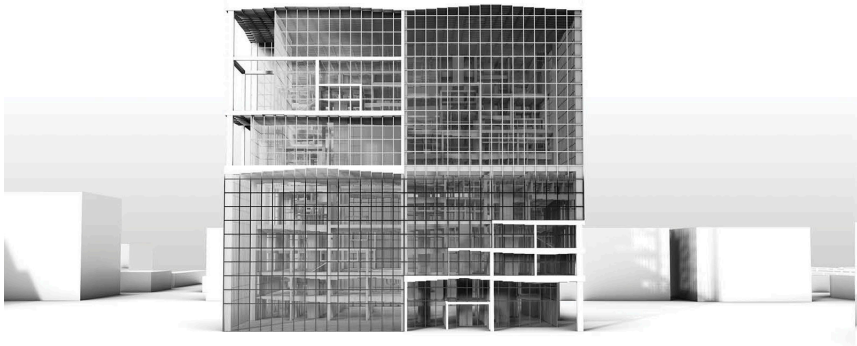
Fall 2018 / 14 weeks

The ephemeral centralization of Montreal's fashion industry towards the Chabanel sector conducted the neighborhood to a landscape of out-of-scale and virtually vacant buildings. Generic, mundane, objective, standardized, anonymous, familiar, common, equivalent. These qualifiers depict most of the buildings that are the result from a maximization of floor area in order to promote the return on investment of real estate developers. By attempting economic recovery, spaces formerly occupied by textile manufactures are converted into offices. Nevertheless, the vacancy rate remains significant, the finding of the failure of Chabanel is all the more amplified. Real estate developers have relied on a certain programmatic flexibility based on the design of generic spaces that can be altered according to a finite amount of occupations. Hypothesis: Chabanel's architecture was not generic enough.



3D matrix 4 levels of subdivisions

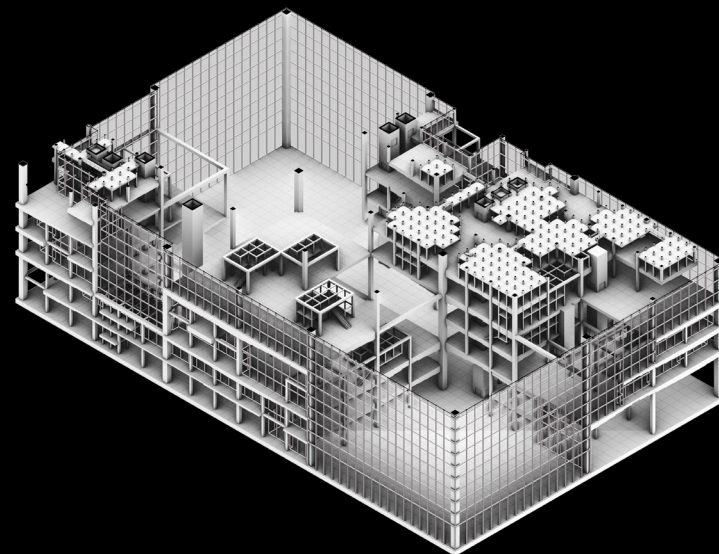
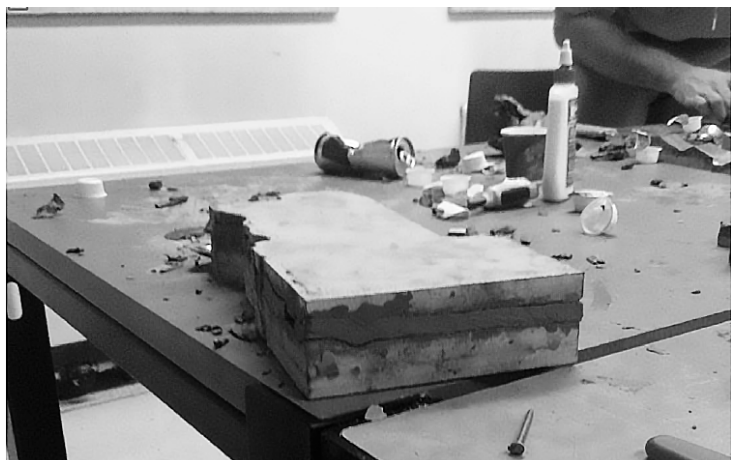
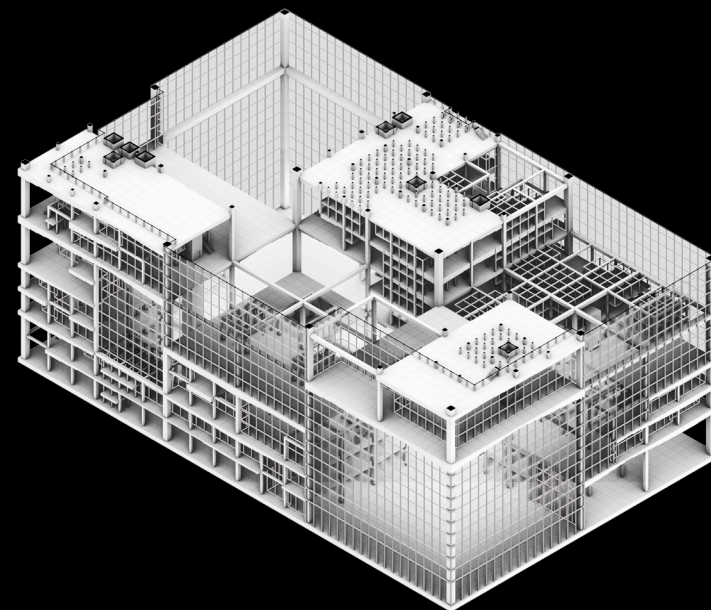
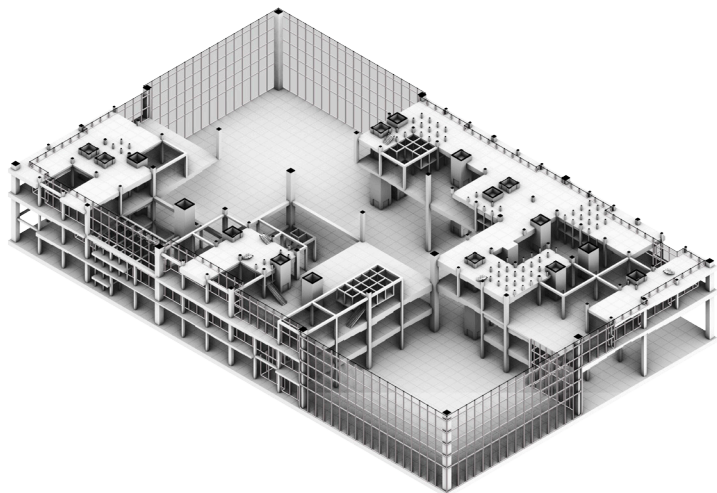




North Elevation + South Elevation [1:1000]

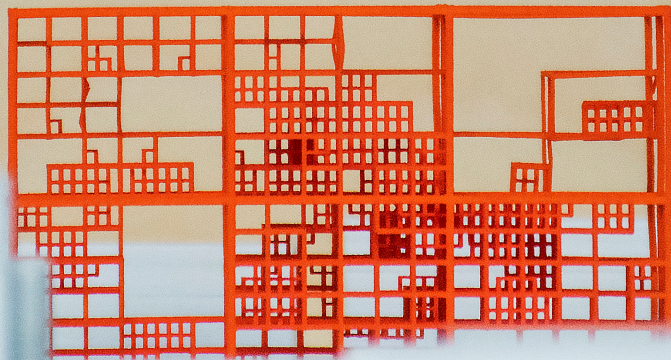
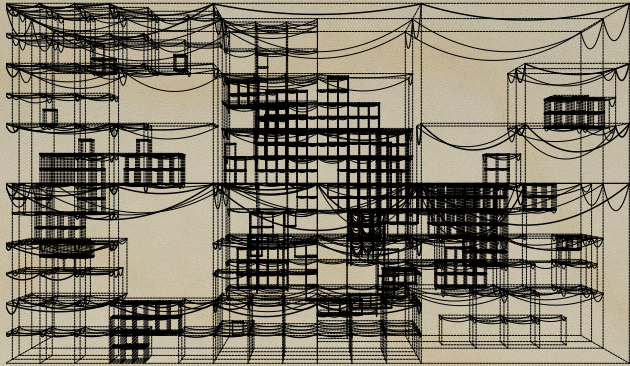


West Elevation + East Elevation [1:1000]

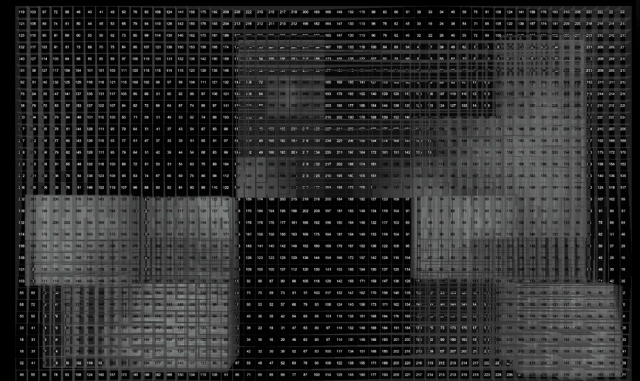


L6 + L1 [1:1000]

L16 + L11 [1:1000]

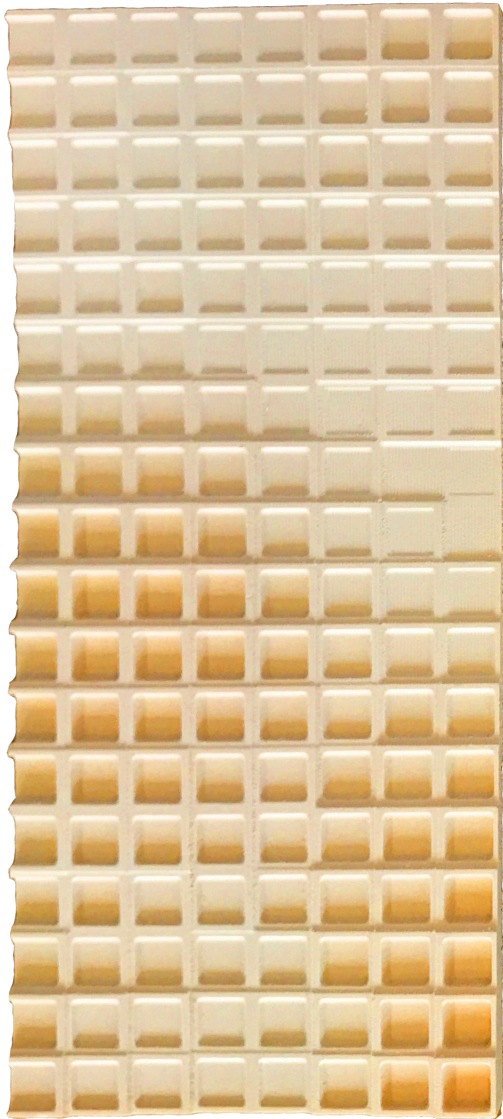


Structural moment gradient / 3D printed model [1:2000]

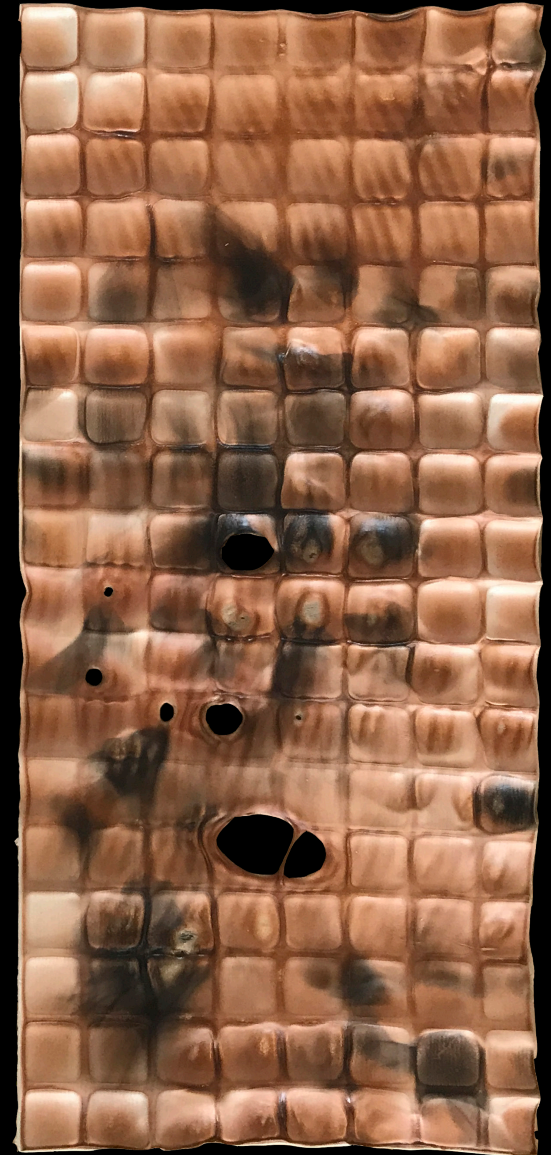


CNC Model / Fire resistance gradient relation in minutes

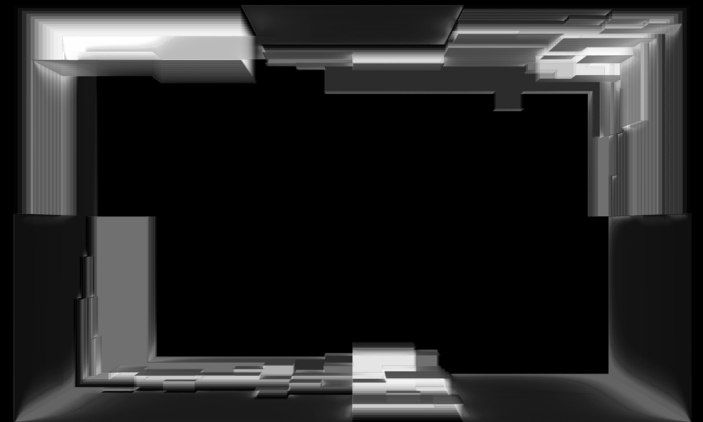
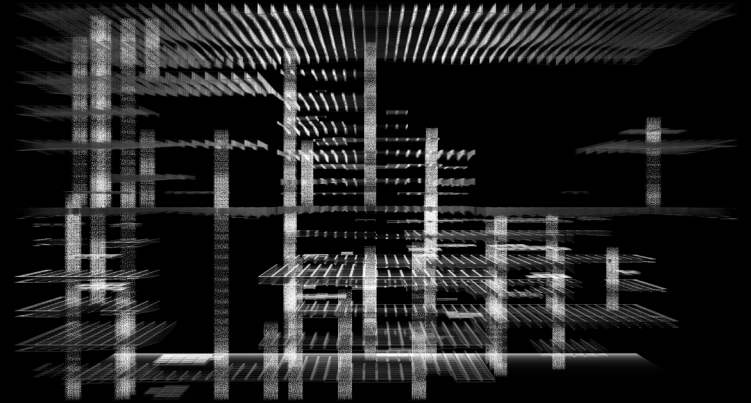




Floor Slab



Equally Burned Floor Slab



À LOUER

100 Rue de Louvain O.



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EXACTEMENT À VOS BESOINS!
MOMENTS STRUCTURAUX DISTINCTS
9980

HAUTEURS DE PLAFONDS
3.5 À 84 MÈTRES
SUPERFICIES DE PLANCHERS
75 À 120 114 P²
RÉSISTANCE AU FEU
1 À 643 MINUTES
ASCENSEURS
29



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NON INCLUS:
FINITION DES PLANCHERS
FINITION DES PLAFONDS
CLOISONS
ÉLECTRICITÉ
PLOMBERIE
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À LOUER

100 Rue de Louvain O.



DES ESPACES QUI RÉPONDENT
EXACTEMENT À VOS BESOINS!
MOMENTS STRUCTURAUX DISTINCTS
9980

HAUTEURS DE PLAFONDS
3.5 À 84 MÈTRES
SUPERFICIES DE PLANCHERS
75 À 120 114 P²
RÉSISTANCE AU FEU
1 À 643 MINUTES
ASCENSEURS
29



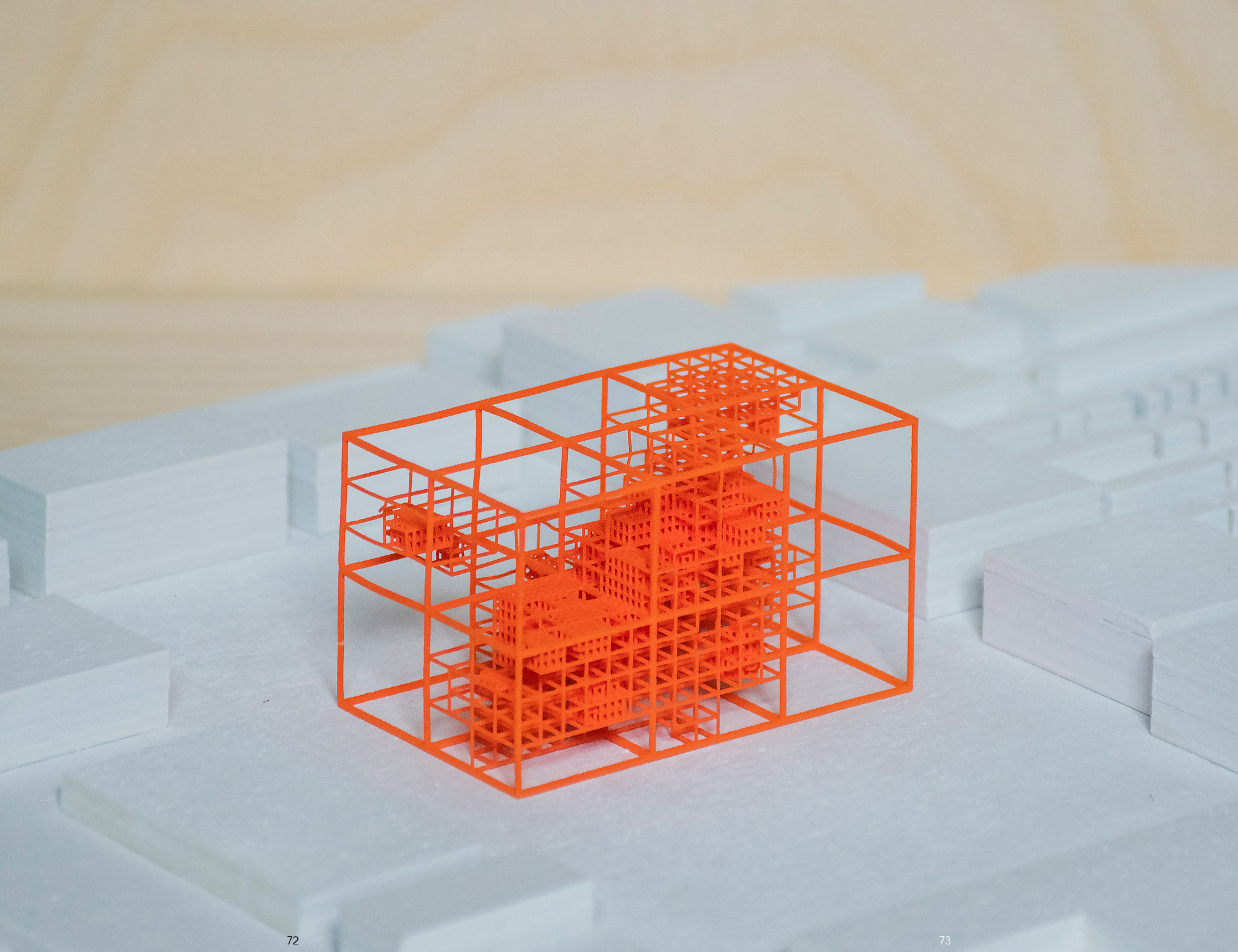
450-806-1820

NON INCLUS:
FINITION DES PLANCHERS
FINITION DES PLAFONDS
CLOISONS
ÉLECTRICITÉ
PLOMBERIE
CHAUFFAGE
CLIMATISATION
ÉCLAIRAGE

FORFAITS DISPONIBLES

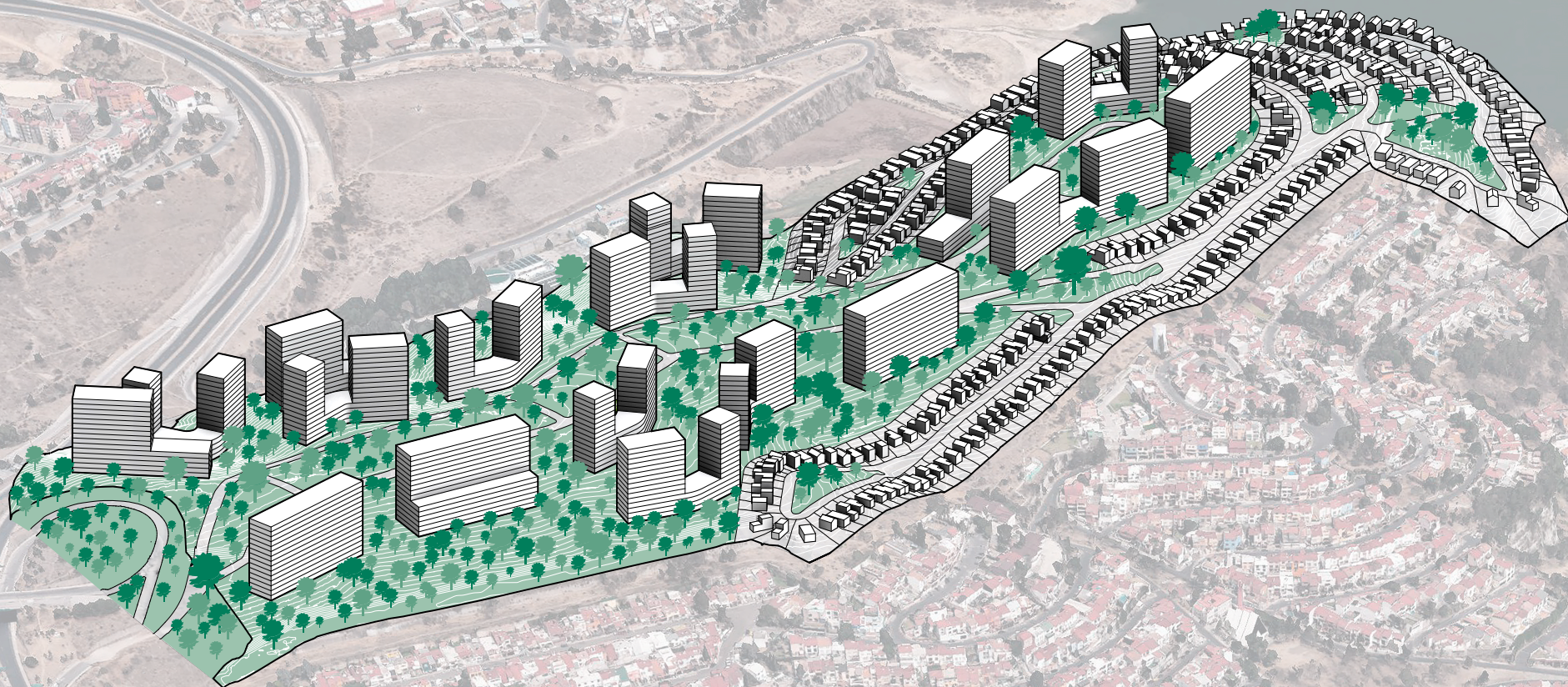
VISIBLE DEPUIS L'AUTOROUTE !





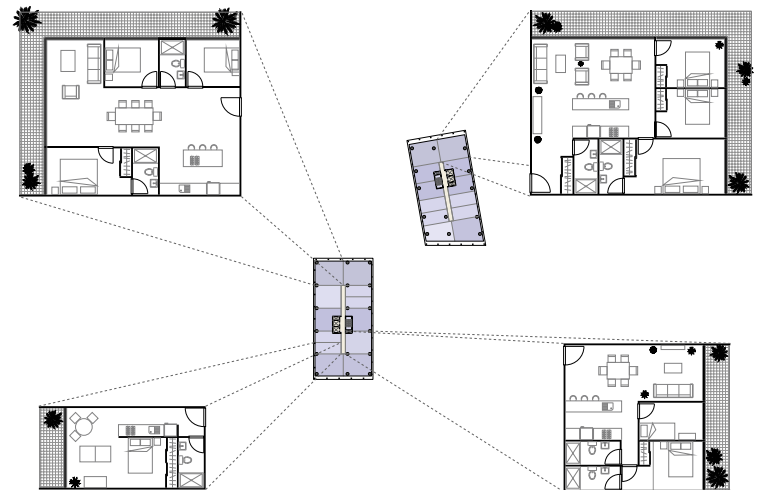
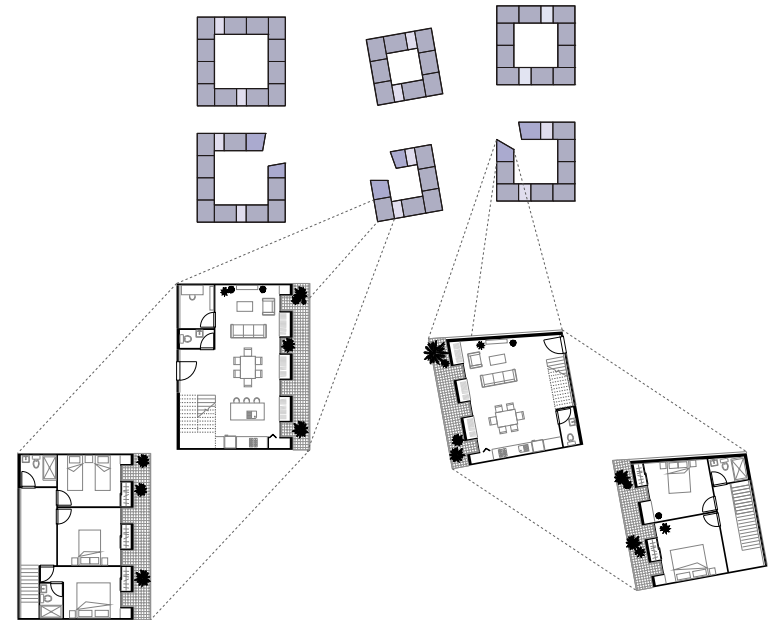
Presa Madin

Housing Development
Location/ Naucalpan de Juarez
Project Manager /Ana Martha Legorreta
7 Weeks



Brisas

Mixed used building competition
Location/ Monterrey
Project Manager / Gerardo Aguilar
3 Weeks





Cummins motors

Offices

Location / San Luis Potosi

Project Manager/ José Dávalos

10 Weeks

